

# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 187330**

**TO: Marcela Cordero Garcia**

**Location: 3a30 / 3c18**

**Art Unit: 1654**

**Wednesday, April 26, 2006**

**Case Serial Number: 10/722843**

**From: Noble Jarrell**

**Location: Biotech-Chem Library**

**Rem 1B71**

**Phone: 272-2556**

**Noble.jarrell@uspto.gov**

### **Search Notes**

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: MARCELA M CORDERO GARCIA Examiner #: 80381 Date: 4/20/06  
Art Unit: 1654 Phone Number: 2-2939 Serial Number: 10/722,043  
Location (Bldg/Room#): REM3A30 (Mailbox #): REM3C18 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: \_\_\_\_\_

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

PLEASE SEARCH A PEPTIDE COMPRISING

Pro His Ser Cys Asn

THANKS,

*[Signature]*

\*\*\*\*\*

STAFF USE ONLY

Searcher: noble

Searcher Phone #: \_\_\_\_\_

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: 4/26/06

Date Completed: 4/26/06

Searcher Prep & Review Time: 10

Online Time: 16

Type of Search

\_\_\_\_ NA Sequence (#)

\_\_\_\_ AA Sequence (#)

1 Structure (#)

✓ Bibliographic

\_\_\_\_ Litigation

\_\_\_\_ Fulltext

\_\_\_\_ Other

Vendors and cost where applicable

✓ STN \_\_\_\_\_ Dialog

\_\_\_\_ Questel/Orbit \_\_\_\_\_ Lexis/Nexis

\_\_\_\_ Westlaw \_\_\_\_\_ WWW/Internet

\_\_\_\_ In-house sequence systems

\_\_\_\_ Commercial \_\_\_\_\_ Oligomer \_\_\_\_\_ Score/Length

\_\_\_\_ Interference \_\_\_\_\_ SPDI \_\_\_\_\_ Encode/Transl

\_\_\_\_ Other (specify)

=> b reg

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STRUCTURE FILE UPDATES: 25 APR 2006 HIGHEST RN 881879-55-6  
DICTIONARY FILE UPDATES: 25 APR 2006 HIGHEST RN 881879-55-6

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\*\*\*\*\*  
\*  
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\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

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=> d que sta l14

L14 156 SEA FILE=REGISTRY ABB=ON PLU=ON PHSCN/SQSP

=> b hcap

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FILE COVERS 1907 - 26 Apr 2006 VOL 144 ISS 18  
FILE LAST UPDATED: 25 Apr 2006 (20060425/ED)

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substance identification.

=> d bib abs fhitseq hitrn retable l17 tot

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:610128 HCAPLUS  
 DN 141:157478  
 TI Peptides which target tumor and endothelial cells, compositions and uses thereof  
 IN Allan, Amy L.; Yoon, Won Hyung; Gladstone, Patricia L. ; Ternansky, Robert J.; Parry, Graham; Donate, Fernando; Mazar, Andrew  
 PA Attenuon, Llc, USA  
 SO PCT Int. Appl., 117 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

|      | PATENT NO.     | KIND   | DATE     | APPLICATION NO. | DATE                        |
|------|----------------|--|----------|-----------------|-----------------------------|
| PI   | WO2004063213   | A2   | 20040729 | 2003WO-US37895  | 20031125 <--                |
|      | WO2004063213   | A3   | 20050303 |                 |                             |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |                             |
|      | RW:            | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |                             |
|      | CA---          | 2506813  | AA       | 20040729        | 2003CA-2506813 20031125 <-- |
|      | US2004162239   | A1   | 20040819 | 2003US-0723144  | 20031125 <--                |
|      | US2005020810   | A1   | 20050127 | 2003US-0722843  | 20031125 <--                |
|      | EP---          | 1569678  | A2       | 20050907        | 2003EP-0796483 20031125 <-- |
|      | R:             | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |          |                 |                             |
|      | BR2003016550   | A  | 20051004 | 2003BR-0016550  | 20031125 <--                |
|      | NO2005003112   | A  | 20050805 | 2005NO-0003112  | 20050624 <--                |
| PRAI | 2002US-429174P | P  | 20021125 | <--             |                             |
|      | 2003US-475539P | P  | 20030602 | <--             |                             |
|      | 2003WO-US37895 | W  | 20031125 |                 |                             |

OS MARPAT 141:157478

AB The invention relates generally to peptide analogs of Ac-PHSCN-NH<sub>2</sub> which target tumor and endothelial cells and have antitumor, antiangiogenic and antimetastatic activity and to methods for their synthesis and use in pharmaceutical compns. for treating, preventing and detecting diseases characterized by tumor growth, metastasis and angiogenesis. The peptide analogs may serve, inter alia, as carriers of radioactivity, PET-active compds., toxins, fluorescent mols. and PEG mols. Peptides R1[(NHCHR<sub>2</sub>CO)0-1(X<sub>1</sub>)0-100]m-X<sub>2</sub>-X<sub>3</sub>-X<sub>4</sub>-X<sub>5</sub>-X<sub>6</sub>-[(X<sub>7</sub>)0-1(NHCHR<sub>3</sub>CO)0-1]nNR<sub>4</sub>R<sub>5</sub> [R<sub>1</sub> is (un)substituted acyl, alkyl, cycloalkyl or imino, or acyl chelate; R<sub>2</sub> is substituted alkyl; R<sub>4</sub>, R<sub>5</sub> are (un)substituted alkyl; X<sub>1</sub>, X<sub>7</sub> are NH(CH:CH)1-6CO, NH(CH<sub>2</sub>)1-6CO, NHCHMeCO; X<sub>2</sub>-X<sub>6</sub> are α-amino acids which are defined; m, n are 0 or 1, with the proviso that R<sub>1</sub> is not acetyl when R<sub>4</sub> and R<sub>5</sub> are H and m and n are 0] are claimed. Thus, Ac-Pro-His-Ser-Cys(Ac)-Asn-OH was prepared by the solid-phase method and coupled to doxorubicin hydrochloride to afford the conjugate.

IT 729594-60-9P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of peptides which target tumor and endothelial cells)

RN 729594-60-9 HCAPLUS

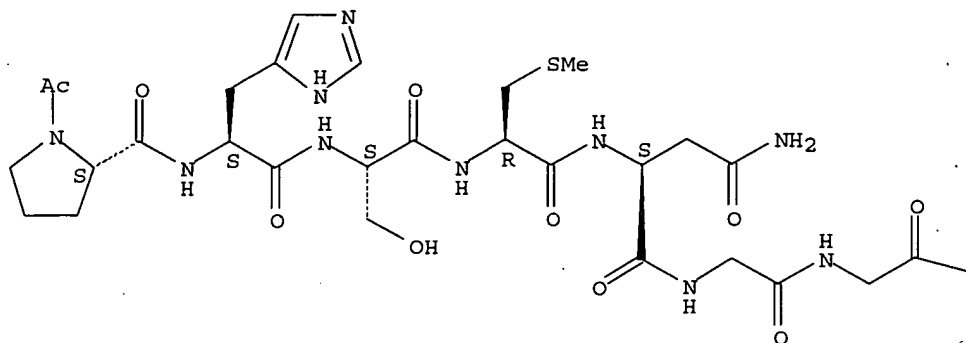
CN L-Lysinamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-S-methyl-L-cysteinyl-L-asparaginyglycylglycyl- (9CI) (CA INDEX NAME)

NTE modified

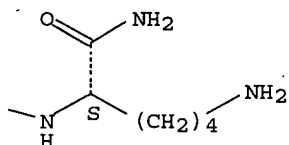
SEQ 1 PHSCNGGK

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IT INDEXING IN PROGRESS

IT 729594-60-9P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); RCT (Reactant);  
 SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of peptides which target tumor and endothelial cells)

IT 262438-43-7DP, analogs 729594-61-0P 729594-62-1P

729594-63-2P 729594-64-3P 729594-65-4P

729594-66-5P 729594-67-6P 729594-68-7P

729594-69-8P 729594-70-1P 729594-71-2P

729594-72-3P 729594-73-4P 729594-74-5P

729594-75-6P 729594-76-7P 729594-77-8P

729594-78-9P 729594-79-0P 729594-80-3P

729594-81-4P 729594-82-5P 729594-83-6P

729594-84-7P 729594-85-8P 729594-86-9P

729594-87-0P 729594-88-1P 729594-89-2P

729594-90-5P 729594-91-6P 729594-92-7P

729594-93-8P 729594-94-9P 729594-95-0P

729594-96-1P 729594-97-2P 729594-98-3P

729594-99-4P 729595-00-0P 729595-01-1P

729595-02-2P 729595-04-4P 729595-05-5P

729595-06-6P 729595-07-7P 729595-08-8P

729595-09-9P 729595-14-6P 730960-54-0P

731003-01-3DP, Indium complexes 731003-01-3P

731003-02-4P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptides which target tumor and endothelial cells)

IT 729595-16-8D, resin-bound 729595-17-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of peptides which target tumor and endothelial cells)

IT 729595-10-2DP, resin-bound 729595-11-3DP, resin-bound

729595-12-4DP, resin-bound 729595-13-5DP, resin-bound

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of peptides which target tumor and endothelial cells)

L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:467702 HCAPLUS

DN 141:33798

TI Peptides which inhibit angiogenesis, cell migration, cell invasion and cell proliferation, their preparation, and compositions and therapeutic uses thereof

IN Allan, Amy L.; Donate, Fernando; Hopkins, Stephanie A.; Gladstone, Patricia L.; Mazar, Andrew; O'Hare, Sean M.; Parry, Graham; Plunkett, Marian L.; Ternansky, Robert J.; Yoon, Won Hyung

PA Attenuon, LLC, USA

SO PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO.  | DATE         |  |
|------|----------------|------|----------|--|--------------|--|
| PI   | WO2004047771   | A2   | 20040610 | 2003WO-US38175   | 20031125 <-- |  |
|      | WO2004047771   | A3   | 20050915 |  |              |  |
|      | W:             |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW |              |  |
|      | RW:            |      |          | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |              |  |
|      | CA---2507045   | AA   | 20040610 | 2003CA-2507045   | 20031125 <-- |  |
|      | US2004162239   | A1   | 20040819 | 2003US-0723144   | 20031125 <-- |  |
|      | US2005020810   | A1   | 20050127 | 2003US-0722843   | 20031125 <-- |  |
|      | BR2003016523   | A    | 20051018 | 2003BR-0016523   | 20031125 <-- |  |
|      | EP---1594521   | A2   | 20051116 | 2003EP-0812058   | 20031125 <-- |  |
|      | R:             |      |          | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK   |              |  |
|      | NO2005003111   | A    | 20050824 | 2005NO-0003111   | 20050624 <-- |  |
| PRAI | 2002US-429174P | P    | 20021125 | <--  |              |  |
|      | 2003US-475539P | P    | 20030602 | <--  |              |  |
|      | 2003WO-US38175 | W    | 20031125 |  |              |  |

OS MARPAT 141:33798

AB The invention discloses peptides which inhibit angiogenesis, cell migration, cell invasion and cell proliferation, as well as methods of making the peptides, pharmaceutical compns. containing the peptides, and methods of using the peptides and pharmaceutical compns. to treat diseases associated with aberrant vascularization, e.g. cancer.

IT 701200-82-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)  
 (peptide inhibitors of angiogenesis, cell migration, cell invasion and  
 cell proliferation, preparation, and compns. and therapeutic uses)

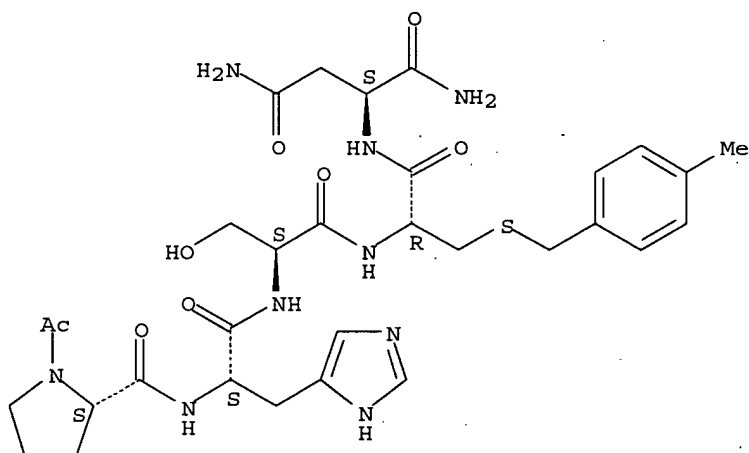
RN 701200-82-0 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-S-[(4-  
 methylphenyl)methyl]-L-cysteinyl- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



IT INDEXING IN PROGRESS

IT 701200-82-0P 701201-01-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (peptide inhibitors of angiogenesis, cell migration, cell invasion and  
 cell proliferation, preparation, and compns. and therapeutic uses)

IT 701200-81-9P 701200-88-6P 701200-90-0P

701200-91-1P 701200-92-2P 701200-93-3P

701200-99-9P 701201-02-7P 701201-03-8P

701201-04-9P 701201-05-0P 701201-06-1P

701201-07-2P 701201-08-3P 701201-09-4P

701201-10-7P 701201-11-8P 701201-12-9P

701201-13-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)

(peptide inhibitors of angiogenesis, cell migration, cell invasion and  
 cell proliferation, preparation, and compns. and therapeutic uses)

IT 262438-43-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(peptide inhibitors of angiogenesis, cell migration, cell invasion and  
 cell proliferation, preparation, and compns. and therapeutic uses)

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:243058 HCAPLUS

DN 139:173332

TI Inhibition of integrin  $\alpha 5 \beta 1$  function with a small peptide  
 (ATN-161) plus continuous 5-FU infusion reduces colorectal liver  
 metastases and improves survival in mice

AU Stoeltzing, Oliver; Liu, Wenbiao; Reinmuth, Niels; Fan, Fan; Parry,  
 Graham C.; Parikh, Alexander A.; McCarty, Marya F.; Bucana, Corazon

D.; Mazar, Andrew P.; Ellis, Lee M.  
 CS Department of Cancer Biology, The University of Texas M.D. Anderson Cancer Center, Houston, TX, 77030-4009, USA  
 SO International Journal of Cancer (2003), 104(4), 496-503  
 CODEN: IJCNAW; ISSN: 0020-7136  
 PB Wiley-Liss, Inc.  
 DT Journal  
 LA English  
 AB Integrin  $\alpha 5\beta 1$  is expressed on activated endothelial cells and plays a critical role in tumor angiogenesis. We hypothesized that a novel integrin  $\alpha 5\beta 1$  antagonist, ATN-161, would inhibit angiogenesis and growth of liver metastases in a murine model. We further hypothesized that combining ATN-161 with 5-fluorouracil (5-FU) chemotherapy would enhance the antineoplastic effect. Murine colon cancer cells (CT26) were injected into spleens of BALB/c mice to produce liver metastases. Four days thereafter, mice were given either ATN-161 (100 mg/kg, every 3rd day) or saline by i.p. injection, with or without combination of continuous-infusion 5-FU (100 mg/kg/2 wk), which was started on day 7. On day 20 after tumor cell inoculation, mice were killed and liver wts. and number of liver metastases were determined. A follow-up study on survival was also conducted in which mice were randomized to receive ATN-161, 5-FU or ATN-161+5-FU. Combination therapy with ATN-161+5-FU significantly reduced tumor burden (liver weight) and number of liver metastases ( $p < 0.02$ ). Liver tumors in the ATN-161 and ATN-161+5-FU groups had significantly fewer microvessels ( $p < 0.05$ ) than tumors in the control or 5-FU-treated groups. Unlike treatment with either agent alone, ATN-161+5-FU significantly increased tumor cell apoptosis and decreased tumor cell proliferation ( $p < 0.03$ ) and improved overall survival ( $p < 0.03$ , log-rank test). Targeting integrin  $\alpha 5\beta 1$  in combination with 5-FU infusion reduced liver metastases formation and improved survival in this colon cancer model. The enhancement of antineoplastic activity from the combination of anti-angiogenic therapy and chemotherapy may be a promising approach for treating metastatic colorectal cancer.

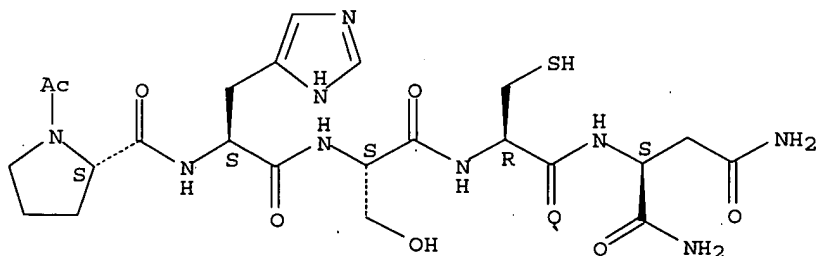
IT 262438-43-7, ATN 161  
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (inhibition of integrin  $\alpha 5\beta 1$  function with ATN-161 plus 5-FU infusion reduces colorectal liver metastases and improves survival in mice)

RN 262438-43-7 HCAPLUS  
 CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)  
 (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



IT INDEXING IN PROGRESS  
 IT 262438-43-7, ATN 161  
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of integrin  $\alpha 5 \beta 1$  function with ATN-161 plus 5-FU  
infusion reduces colorectal liver metastases and improves survival in  
mice)

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Baker, C                   | 2002          | 62           | 1996        | Cancer Res               | HCAPLUS            |
| Bello, L                   | 2001          | 61           | 7501        | Cancer Res               | HCAPLUS            |
| Bergsland, E               | 2000          | 19           | 242         | Proc Am Soc Clin Onc     |                    |
| Braakhuis, B               | 1995          | 22           | 42          | Semin Oncol              | HCAPLUS            |
| Brooks, P                  | 1994          | 79           | 1157        | Cell                     | HCAPLUS            |
| Brooks, P                  | 1995          | 96           | 1815        | J Clin Invest            | HCAPLUS            |
| Browder, T                 | 2000          | 60           | 1878        | Cancer Res               | HCAPLUS            |
| Bruns, C                   | 2000          | 89           | 488         | Cancer                   | HCAPLUS            |
| Bruns, C                   | 2000          | 6            | 1936        | Clin Cancer Res          | HCAPLUS            |
| Fidler, I                  | 1991          | 10           | 229         | Cancer Metastasis Re     | MEDLINE            |
| Friedlander, M             | 1995          | 270          | 1500        | Science                  | HCAPLUS            |
| Gately, S                  | 2001          | 7            | 427         | Cancer J                 | MEDLINE            |
| Giancotti, F               | 1999          | 285          | 1028        | Science                  | HCAPLUS            |
| Gong, J                    | 1997          | 8            | 83          | Cell Growth Differ       | HCAPLUS            |
| Griggs, D                  | 2001          | 42           | 1420        | Proc Am Assoc Cancer     |                    |
| Hanahan, D                 | 2000          | 105          | 1045        | J Clin Invest            | HCAPLUS            |
| Hynes, R                   | 1992          | 69           | 11          | Cell                     | HCAPLUS            |
| Kakeji, Y                  | 1997          | 15           | 39          | Invest New Drugs         | HCAPLUS            |
| Kase, S                    | 1993          | 13           | 369         | Anticancer Res           | HCAPLUS            |
| Kerbel, R                  | 2002          | 13           | 12          | Ann Oncol                | MEDLINE            |
| Kerbel, R                  | 2000          | 36           | 1248        | Eur J Cancer             | HCAPLUS            |
| Kerr, J                    | 1999          | 19           | 959         | Anticancer Res           | HCAPLUS            |
| Kerr, J                    | 2000          | 9            | 1271        | Expert Opin Investig     | HCAPLUS            |
| Kim, S                     | 2000          | 156          | 1345        | Am J Pathol              | HCAPLUS            |
| Kim, S                     | 2000          | 275          | 33920       | J Biol Chem              | HCAPLUS            |
| Klement, G                 | 2002          | 8            | 221         | Clin Cancer Res          | HCAPLUS            |
| Klement, G                 | 2000          | 105          | R15         | J Clin Invest            | HCAPLUS            |
| Klotz, O                   | 2000          | 238          | 88          | Arch Clin Exp Ophtha     | HCAPLUS            |
| Kumar, C                   | 2000          | 476          | 169         | Adv Exp Med Biol         | MEDLINE            |
| Kumar, C                   | 2001          | 61           | 2232        | Cancer Res               | HCAPLUS            |
| Livant, D                  | 2000          | 60           | 309         | Cancer Res               | HCAPLUS            |
| Lode, H                    | 1999          | 96           | 1591        | Proc Natl Acad Sci U     | HCAPLUS            |
| Morikawa, K                | 1990          | 82           | 517         | J Natl Cancer Inst       | HCAPLUS            |
| Mross, K                   | 2000          | 3            | 223         | Drug Resist Updat        | HCAPLUS            |
| O'Brien, V                 | 1996          | 224          | 208         | Exp Cell Res             | HCAPLUS            |
| Remmenga, S                | 1994          | 55           | 115         | Gynecol Oncol            | MEDLINE            |
| Schreiner, C               | 1991          | 9            | 163         | Clin Exp Metastasis      | HCAPLUS            |
| Stoeltzing, O              | 2001          | 7            | 3656S       | Clin Cancer Res          |                    |
| Storgard, C                | 1999          | 103          | 47          | J Clin Invest            | HCAPLUS            |
| Tedjarati, S               | 2002          | 8            | 2413        | Clin Cancer Res          | HCAPLUS            |
| Varner, J                  | 1995          | 6            | 725         | Mol Biol Cell            | HCAPLUS            |
| White, E                   | 2001          | 167          | 5362        | J Immunol                | HCAPLUS            |

=> d bib abs hitseq retable 120 tot

L20 ANSWER 1 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:663850 HCAPLUS

DN 141:186005

TI Rice nucleic acid molecules and encoded proteins and their uses for plant  
improvement

IN La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei;  
Boukharov, Andrey A.; Barbazuk, Brad W.

PA USA

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 27

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|------|--|------|----------|-----------------|--------------|
| PI   | US2004123343   | A1   | 20040624 | 2003US-0437963  | 20030514 <-- |
|      | US2004123343   | A1   | 20040624 | 2003US-0437963  | 20030514 <-- |
| PRAI | 2000US-197872P   | P    | 20000419 | <--             |              |
|      | 2001US-0837604   | A2   | 20010418 | <--             |              |
|      | 2003US-0437963   | A    | 20030514 |                 |              |
| AB   | The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice ( <i>Oryza sativa</i> ). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.] |      |          |                 |              |
| IT   | 736624-12-7<br>RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; rice nucleic acid mols. and encoded proteins and their uses for plant improvement)   |      |          |                 |              |
| RN   | 736624-12-7 HCAPLUS  |      |          |                 |              |
| CN   | Protein ( <i>Oryza sativa</i> clone PAT_MRT4530_75798C.1.pep fragment) (9CI) (CA INDEX NAME)   |      |          |                 |              |

SEQ 1 SVPFLPAEIL TTWVSIPILS PMTLLLCSLF TWMKLEGFTV HATPHSCNHL  
51 L

L20 ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:663844 HCAPLUS

DN 141:186000

TI Rice nucleic acid molecules and encoded proteins and their uses for plant improvement

IN La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.

PA USA

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 27

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|------|--|------|----------|-----------------|--------------|
| PI   | US2004123343   | A1   | 20040624 | 2003US-0437963  | 20030514 <-- |
|      | US2004123343   | A1   | 20040624 | 2003US-0437963  | 20030514 <-- |
| PRAI | 2000US-197872P   | P    | 20000419 | <--             |              |
|      | 2001US-0837604   | A2   | 20010418 | <--             |              |
|      | 2003US-0437963   | A    | 20030514 |                 |              |
| AB   | The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice ( <i>Oryza sativa</i> ). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.] |      |          |                 |              |
| IT   | 736366-35-1<br>RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; rice nucleic acid mols. and encoded proteins and their uses for plant improvement)   |      |          |                 |              |

RN 736366-35-1 HCAPLUS  
 CN Protein (Oryza sativa clone PAT\_MRT4530\_52392C.1.pep fragment) (9CI) (CA  
 INDEX NAME)

SEQ 1 MAHTSGVAAR LNLVFMGRPL ARSAQPPPSG PRFSGRAQRR RGSNEATACG  
 51 KGRSRAGRAA SPDVVATKPP PLHDEEEEEEG GRMVRRGRKG KDAAAGAGGT  
 101 GGRGGGAGRG GGRGGSGGGG GGGGVREATL VRVSKVLEDF QASDAQVYKF  
 151 EPGISKQERA AIHEMCRKMG MISKSSNGE RRCLSVYKRK QNQGLETEEG  
 201 PSHLGFSVEA RNVLDLQFMH YPPDDAELNG HTVRNSSDKA VKIQWKPDGA  
 251 FCRPALRKPD ILKKVEMLAS KIVQDRSKLP ISSYKDAISS TLENHQVOLI  
 301 SGETGCGKTT QVPQYILDHM WGKGESCKIV CTQPRRISAI SVAERISAER  
 351 GESVGDTVGY KIRLESKGGK NSSIMFCTNG VLLRLLIGRR IAENIYQLFL  
 401 CNSERAHLDE EIHERDRFSD FMLAILRDLI PLYPHLRVLK TFYLEDVLSI  
 451 LQSVGDNLHD PTTDDLKQSS LLTDDYKSSM DEAINLALDN DEFDPLELEI  
 501 SAEQNQEIFN YQHSETGVTP LMLVLAGKQV GDICMLLSFG VDCSTRDHG  
 551 KSALGWAEQG NQEVCEVIK KHMECGSAKL TEENELLNKY LATINPEHID  
 601 TVLIERLLRK ICVDSNEGAI LVFLPGWEDI NQTRERLLAS PFFQDSSKFL  
 651 VLSLHSMIPS SEQKKVFKRP PAGSRKIILS TNIAETAVTI DDVVVIDSG  
 701 RMKEKSYDPY NNVSTLHSSW VSKANARQRO GRAGRCQPGT CYHLYSRFRA  
 751 ASLLEYQIPE IKRMPHEELC LQVKLLDPNC RIADFLRKTLD PPPIPETVRN  
 801 AITVLQDLGA LTQDEQLTEL GEKLGSLPVH PSTSKMLLFG ILMNCLDPAL  
 851 TLACAAADYRD PFLLPAPDE RKRAAAAKVE LASLYGGYSD QLAVVAAMDC  
 901 WRRAKDRGQE AQFCSKYFVS SNTMNMLSNM RKQLQNELAQ RGFVPVDASA  
 951 CSLNARDPGI IRAVLMAAGY PMVGRLLPPR KNTRRAVIET ASGAKVRLHP  
 1001 HSCNFNLSFR KTSNPLVIY DEITRGDGGM YIKNSSVVGVS YPLIILATEM  
 1051 VVAPPEDDSD DEEDGDSSD ETEKVTLGQH KEIMSSPDNS VSVVIDRWLR  
 1101 FDATAALDVAQ IYCLRERLAS AILFKVKHPQ DVLPPDLGAT MYAIACILSY  
 1151 DGLPAMITSD DVATSQGSNQ SSAESSRFSQ GRRVGYIPPG GFLMSLLSDK  
 1201 PLNAPHFQKS FNHPDGASGH IRSSRTSVGR FDQSRHPQRN NSGPGSSAAR  
 1251 TFKRQRNGAQ

L20 ANSWER 3 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:449883 HCAPLUS

DN 140:402911

TI Binary prediction tree modeling with many predictors and its uses in  
 clinical and genomic applications

IN Nevins, Joseph R.; West, Mike; Huang, Andrew T.

PA Duke University, USA

SO PCT Int. Appl., 886 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO.   | DATE         |
|----|--------------|------|----------|---|--------------|
| PI | WO2004038376 | A2   | 20040506 | 2003WO-XA33946  | 20031024 <-- |
|    | W:           |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,<br>GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,<br>LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,<br>OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,<br>TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |              |
|    | RW:          |      |          | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,<br>CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,<br>NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,<br>GW, ML, MR, NE, SN, TD, TG   |              |
|    | WO2004038376 | A2   | 20040506 | 2003WO-US33946  | 20031024 <-- |
|    | WO2004038376 | A3   | 20040826 |   |              |
|    | W:           |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,<br>GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,<br>LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,  |              |

OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI 2002US-420729P P 20021024 <--  
 2002US-421062P P 20021025 <--  
 2002US-421102P P 20021025 <--  
 2002US-424701P P 20021108 <--  
 2002US-424715P P 20021108 <--  
 2002US-424718P P 20021108 <--  
 2002US-425256P P 20021112 <--  
 2003US-448461P P 20030221  
 2003US-448462P P 20030221  
 2003US-457877P P 20030327  
 2003US-458373P P 20030331  
 2003WO-US33946 A 20031024

AB The statistical anal. described and claimed is a predictive statistical tree model that overcomes several problems observed in prior statistical models and regression analyses, while ensuring greater accuracy and predictive capabilities. Although the claimed use of the predictive statistical tree model described herein is directed to the prediction of a disease in individuals, the claimed model can be used for a variety of applications including the prediction of disease states, susceptibility of disease states or any other biol. state of interest, as well as other applicable non-biol. states of interest. This model first screens genes to reduce noise, applies kmeans correlation-based clustering targeting a large number of clusters, and then uses singular value decompns. (SVD) to extract the single dominant factor (principal component) from each cluster. This generates a statistically significant number of cluster-derived singular factors, that are referred to as metagenes, that characterize multiple patterns of expression of the genes across samples. The strategy aims to extract multiple such patterns while reducing dimension and smoothing out gene-specific noise through the aggregation within clusters. Formal predictive anal. then uses these metagenes in a Bayesian classification tree anal. This generates multiple recursive partitions of the sample into subgroups (the 'leaves' of the classification tree), and assoc. Bayesian predictive probabilities of outcomes with each subgroup. Overall predictions for an individual sample are then generated by averaging predictions, with appropriate wts., across many such tree models. The model includes the use of iterative out-of-sample, cross-validation predictions leaving each sample out of the data set one at a time, refitting the model from the remaining samples and using it to predict the hold-out case. This rigorously tests the predictive value of a model and mirrors the real-world prognostic context where prediction of new cases as they arise is the major goal.

IT 391964-05-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; binary prediction tree modeling with many predictors and its uses in clin. and genomic applications)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16 ) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL  
 51 LFISIVIIIRQ EGKPKSQOTS FQSSPCNKSP KSHGLQNPQW QKLRNEKHII  
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA  
 151 KPKKATQFVY SYARGPKVKE KKKCEWSNRT TPKPEMLDPK VPNLWGFSTL  
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRGKL PGKWRGPGHD QAEIHNRRRA  
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT  
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCCLVR  
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP  
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC  
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH

501 GGQCQPCQII LNQVCYCGST SRDVLCTDV GKSDGFGDFS CLKTCGKDLK  
 551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM  
 601 DPVPCSGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR  
 651 TKELPCTSLK SEDATFMC DK RCNKKRLCGR HKCNEICVD KEHKCPLNCG  
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP  
 751 ECTQTARVH ECDHPVYHSG HSEKCPPCT FLTQKWC MGK HEFRSNIPCH  
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP  
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM  
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDECSALER KKRLAEAFHI  
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN  
 1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV  
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNP GSSNLQK ITKEPIIDYF  
 1101 DVQD

L20 ANSWER 4 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:369010 HCAPLUS

DN 140:369948

TI Nucleic acids encoding human polypeptides and their diagnostic and therapeutic uses

IN Williams, Lewis T.; Chu, Keting; Lee, Ernestine; Hestir, Kevin; Beaurang, Pierre Alvaro; Behrens, Dirk; Halenbeck, Robert Forgan; Kothakota, Srinivas; Lin, Haishan; Linnemann, Thomas; Pierce, Kristen; Wang, Yan; Wong, Justin G. P.; Wu, Ge; Zhang, Hongbing; Zeng, Changjiang

PA Five Prime Therapeutics, Inc., USA

SO PCT Int. Appl., 532 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 18

|      | PATENT NO.     | KIND   | DATE     | APPLICATION NO.  | DATE         |
|------|----------------|--|----------|------------------|--------------|
| PI   | WO2004038003   | A2   | 20040506 | WO 2003-US333947 | 20031024 <-- |
|      | WO2004038003   | A3   | 20041209 |                  |              |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                  |              |
|      | RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                  |              |
|      | AU2003298606   | A1   | 20040513 | 2003AU-0298606   | 20031024 <-- |
| PRAI | 2002US-421061P | P  | 20021025 | <--              |              |
|      | 2002US-421080P | P  | 20021025 | <--              |              |
|      | 2002US-421552P | P  | 20021025 | <--              |              |
|      | 2002US-421614P | P  | 20021025 | <--              |              |
|      | 2002US-422177P | P  | 20021030 | <--              |              |
|      | 2002US-422178P | P  | 20021030 | <--              |              |
|      | 2002US-426355P | P  | 20021115 | <--              |              |
|      | 2002US-426384P | P  | 20021115 | <--              |              |
|      | 2002US-426394P | P  | 20021115 | <--              |              |
|      | 2002US-426430P | P  | 20021115 | <--              |              |
|      | 2002US-426916P | P  | 20021115 | <--              |              |
|      | 2002US-429224P | P  | 20021127 | <--              |              |
|      | 2002US-429275P | P  | 20021127 | <--              |              |
|      | 2002US-429302P | P  | 20021127 | <--              |              |
|      | 2002US-429326P | P  | 20021127 | <--              |              |
|      | 2002US-429651P | P  | 20021127 | <--              |              |
|      | 2002US-430645P | P  | 20021204 | <--              |              |
|      | 2002US-430651P | P  | 20021204 | <--              |              |
|      | 2002US-430657P | P  | 20021204 | <--              |              |

|                |   |          |     |
|----------------|---|----------|-----|
| 2002US-430663P | P | 20021204 | <-- |
| 2002US-430668P | P | 20021204 | <-- |
| 2002US-430684P | P | 20021204 | <-- |
| 2002US-430937P | P | 20021205 | <-- |
| 2002US-430965P | P | 20021205 | <-- |
| 2002US-431458P | P | 20021205 | <-- |
| 2002US-433251P | P | 20021212 | <-- |
| 2002US-433500P | P | 20021212 | <-- |
| 2002US-433316P | P | 20021213 | <-- |
| 2002US-433318P | P | 20021213 | <-- |
| 2002US-436236P | P | 20021223 | <-- |
| 2003US-437914P | P | 20030103 |     |
| 2003US-440820P | P | 20030117 |     |
| 2003US-440821P | P | 20030117 |     |
| 2003US-463700P | P | 20030418 |     |
| 2003US-463708P | P | 20030418 |     |
| 2003US-463716P | P | 20030418 |     |
| 2003US-463732P | P | 20030418 |     |
| 2003US-467199P | P | 20030502 |     |
| 2003US-467201P | P | 20030502 |     |
| 2003US-467203P | P | 20030502 |     |
| 2003US-467230P | P | 20030502 |     |
| 2003US-471306P | P | 20030519 |     |
| 2003US-471336P | P | 20030519 |     |
| 2003US-472420P | P | 20030522 |     |
| 2003US-472430P | P | 20030522 |     |
| 2003US-476609P | P | 20030609 |     |
| 2003US-476621P | P | 20030609 |     |
| 2003US-476632P | P | 20030609 |     |
| 2003US-476641P | P | 20030609 |     |
| 2003US-485223P | P | 20030708 |     |

AB The invention provides 784 novel human cDNA sequences plus their encoded polypeptides and mouse homologs, and related modulators, such as antibodies and small mol. modulators. The invention also provides methods to make and use these polynucleotides, polypeptides, related compns., and modulators. These methods include diagnostic, prophylactic, and therapeutic applications. The compns. and methods of the invention are useful in treating proliferative disorders, e.g., cancers, and inflammatory, immune, bacterial, and viral disorders.

IT 683848-87-5, Protein (human clone HG1013154.P1)  
 RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (amino acid sequence; nucleic acids encoding human polypeptides and their diagnostic and therapeutic uses)

RN 683848-87-5 HCAPLUS

CN Protein (human clone HG1013154.P1) (9CI) (CA INDEX NAME)

SEQ 1 MLEQKRDPTW LQSEVKIINN PDGRECIKGV NTEQKVHIRE KPYGCNEHGK  
 51 VFRVSSSLTN RQVIHIADKT YKSCDCGEIF SSNSNFAQHQ RIHTGEKPYK  
 101 YNECGKVFNQ NSHLAQHQKI HTGQKPYNNK ECGKVFSHHA YLAQHRKIHT  
 151 GEKPYKCEC GKAFSVCSL TAHLVIHTGE KPYDCKECCGK VFRHKSSLTT  
 201 HQTVHTGERP YKNECGKGF SRIAFLARHR KVHTGEKPYK CNECGKVFIG  
 251 NSRLARHRKI HTGGRRYKCN ECGKAFRTCS DLTAHLIIHT GEKPYECIDC  
 301 GKVFRHKSSL TYHCRIHTGE KPYKNECGK VFSQNSNLQR HRKIHTGEKL  
 351 YKNECGKV FQNSHLAQHR DIHTGEKPYS CNECGKVFR NSHLVRHRNV  
 401 HTGEKPYSCN ECGKVFSRNS HLAHRHNIHT GEKPHSCNEC GKVFSRNSHL  
 451 ARHRKIHTGE KLYKNECSK VFSRNSRLAQ HRNIHTGVKP YSCNECGKVF  
 501 SKNSILVQHC SIHTREKP

L20 ANSWER 5 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:209219 HCAPLUS

DN 140:230623  
 TI Soybean nucleic acids and encoded proteins associated with transcription  
 in plants and their uses for plant improvement  
 IN La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David K.; Cao, Yongwei  
 PA USA  
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,  
 abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 76

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE         |
|------|----------------|------|----------|-----------------|--------------|
| PI   | US2004031072   | A1   | 20040212 | 2003US-0424599  | 20030428 <-- |
|      | US2004031072   | A1   | 20040212 | 2003US-0424599  | 20030428 <-- |
| PRAI | 1999US-0304517 | B1   | 19990506 | <--             |              |
|      | 2001US-0985678 | B2   | 20011105 | <--             |              |
|      | 2003US-0424599 | A    | 20030428 |                 |              |

AB This invention provides 142,842 polynucleotide sequences isolated from a  
 cDNA library generated from Glycine maximum. The open reading frame in each  
 polynucleotide sequence is identified by a combination of predictive and  
 homol.-based methods. Functions of polypeptides encoded by the  
 polynucleotides sequences are determined using a hierarchical classification  
 tool, termed FuncAT, for Functional Categories Annotation Tool. Sequences  
 useful for producing transgenic plants having improved biol. properties  
 are identified from their FuncAT annotations. [This abstract record is one  
 of 72 records for this document necessitated by the large number of index  
 entries required to fully index the document and publication system  
 constraints.]

IT 666944-30-5  
 RL: BSU (Biological study, unclassified); BUU (Biological use,  
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (amino acid sequence; soybean nucleic acids and encoded proteins  
 associated with transcription in plants and their uses for plant  
 improvement)

RN 666944-30-5 HCAPLUS  
 CN Transcription-associated protein (Glycine max clone  
 PAT\_MRT3847\_136416C.1.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 MAHLADLCQK LKVIEQCQVS PPPGSVPPTS LPLAFLDLPW VYCDTVQSIF  
 51 FFEFPHSCNH FLQTVLPNLK HSLSLTLQQF FPFVGNLVIP PKPNFPHILY  
 101 TSENSISFTI AESTADFPHL IADTARDVKD SHPFVPILPT PTTKEDGTWL  
 151 LPLMAIQLTI FPEYGFSCICI SFRHVVDAR AFLHFMKFWY YVCRTKHDVA  
 201 ATQDLLPLLN RDIKDPKGL KVFSEELWNS PIESIKT

L20 ANSWER 6 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:155817 HCAPLUS  
 DN 140:194470  
 TI Nucleic acids and encoded proteins associated with plants and their uses  
 for plant improvement  
 IN Liu, Jingdong; Zhou, Yihua; Kovalic, David K.; Screen, Steven E.; Tabaska,  
 Jack E.; Cao, Yongwei  
 PA USA  
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,  
 abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 76

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|----|--------------|------|----------|-----------------|--------------|
| PI | US2004034888 | A1   | 20040219 | 2003US-0425114  | 20030428 <-- |

US2004034888 A1 20040219 2003US-0425114 20030428 <--  
 PRAI 1999US-0304517 B1 19990506 <--  
 2001US-0985678 B2 20011105 <--  
 2003US-0425114 A 20030428  
 AB This invention provides 36,564 polynucleotide sequences isolated from cDNA libraries generated from various plants, including Zea mays, Glycine max, Arabidopsis thaliana, Lycopersicon esculentum, Oryza sativa, Triticum aestivum, Euglena gracilis, Chlorella vulgaris, Schizochytrium aggregatum, Brassica napus, Gossypium hirsutum, Cucumis sativus, Lilium asiatic, Sorghum bicolor, Chlorella sorokiniana, Cuphea pulcherrima, and Allium porrum. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol.-based methods. Functions of polypeptides encoded by the polynucleotides sequences are determined using a hierarchical classification tool, termed FunCAT, for Functional Categories Annotation Tool. Sequences useful for producing transgenic plants having improved biol. properties are identified from their FunCAT annotations. [This abstract record is one of 19 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].  
 IT 661754-58-1  
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acids and encoded proteins associated with plants and their uses for plant improvement)  
 RN 661754-58-1 HCAPLUS  
 CN Protein (Glycine max clone 700747514\_FLI.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 GQTEQKPNTTP HSCNQSMAEP SSSKPAVPLL KDELDIVIPT IRNLDFLEMW  
 51 RPFEPYHLI IVQDGPNT RT IKVPDGFDFE LYNRNDINRI LGPKASCISF  
 101 KDSACRCFGY MVSKKKIYIT IDDDCFVAKD PSGKDINALE QHIKNLLCPS  
 151 TPFFFTLYD PYRAGADFVR GYPFSLREGA PTAVSHGLWL NIPDYDAPTQ  
 201 LVKPLERNTR YVDAVLTIPK GTLFPMCGMN LAFDRQLIGP AMYFGLMGDG  
 251 QPIGRYDDMW AGWCVKVICD HLGLGVKTGL PYIWHKASN PFVNLKKEYK  
 301 GIFWQEEIIP FFQSATIPKE CTSVQKCYIE LSKQVKEKLG AVDPYFTKLA  
 351 DAMVTWIEAW DELNSTTSEE ASSKSANGAA AATK

L20 ANSWER 7 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:155810 HCAPLUS  
 DN 140:194467  
 TI Nucleic acids and encoded proteins associated with plants and their uses for plant improvement  
 IN Liu, Jingdong; Zhou, Yihua; Kovalic, David K.; Screen, Steven E.; Tabaska, Jack E.; Cao, Yongwei  
 PA USA  
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678, abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 76

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | US2004034888  | A1   | 20040219 | 2003US-0425114  | 20030428 <-- |
|      | US2004034888  | A1   | 20040219 | 2003US-0425114  | 20030428 <-- |
| PRAI | 1999US-0304517  | B1   | 19990506 | <--             |              |
|      | 2001US-0985678  | B2   | 20011105 | <--             |              |
|      | 2003US-0425114  | A    | 20030428 |                 |              |
| AB   | This invention provides 36,564 polynucleotide sequences isolated from cDNA libraries generated from various plants, including Zea mays, Glycine max, Arabidopsis thaliana, Lycopersicon esculentum, Oryza sativa, Triticum aestivum, Euglena gracilis, Chlorella vulgaris, Schizochytrium aggregatum, |      |          |                 |              |

Brassica napus, Gossypium hirsutum, Cucumis sativus, Lilium asiatic, Sorghum bicolor, Chlorella sorokiniana, Cuphea pulcherrima, and Allium porrum. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol.-based methods. Functions of polypeptides encoded by the polynucleotides sequences are determined using a hierarchical classification tool, termed FunCAT, for Functional Categories Annotation Tool. Sequences useful for producing transgenic plants having improved biol. properties are identified from their FunCAT annotations. [This abstract record is one of 19 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 661628-65-5  
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acids and encoded proteins associated with plants and their uses for plant improvement)  
 RN 661628-65-5 HCAPLUS  
 CN Protein (Zea mays mexicana clone uC-zmroteosinte018g09\_FLI.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 LLIGRGTNAS KARNQKRSLD DAVLGITHII VDEIHERDRF SDFMLTILRD  
 51 LLPLYPHLRM VLMSATIDAE RFSQYFNGCS VIQVPGFTYP VKSFYLEDVL  
 101 SILQSAEQNT EVYNYQHSET GITPLMVFAM KGQLGDVCML LSFGVDCSAQ  
 151 DHDGKSALDW AQQENQQEVC EVIKKHMECS SEKSTEDNEL LNKYLASINP  
 201 EHIDTLLIER LLRKICVDSN EGAILVFLPG WEDISQTRER LFASPPFFQDS  
 251 SRFLVLSLHS MIPSEQKKV FKRPPVGVK IILSTNIAET AVTIDDVVFV  
 301 IDSGRMKEKS YDPYNNVSTL HASWVSKASA RQREGGRAGRC QPGTCYHLYS  
 351 RFRASSLPDY QIPEIKRMPI EELCLQVKLL DSNCRADFL KKTLDPPPIE  
 401 TVRNAIAVLQ DLGALTQDEQ LTELGEKLG LPVHPSTTKM LLFAILMNCL  
 451 DPALTACAA DYRDPFVLPV APDERKRAAA AKVELASLYG GFSDQLAVVA  
 501 AFDWCWRHAKD RGQDSQFCAK YFVSSNIMNM LSSMRKQLQN ELSQRGFVPA  
 551 DASACSLNSK DPGIMRAVLM AGAYPMVGKM LPPRKNARKS VLETASGAKV  
 601 RLHPHSCNFN LSFSKSSGNP LLIYDEITRG DGGMYIKNSS VVGSYPLLLI  
 651 AAEMVVAPPD DSDDEDEEDS SEDEAEESTL VQHKEEIMSS PDSIVSVVVD  
 701 RWLRFDATA L DVAQIYCLRE RLASAILFKV KHPQDVLPPA LGASMYAITC  
 751 ILSFDGLPSM VPPNDLSANR GSGQDLAEAS KFSQGRAGY IPPSGFLMSL  
 801 LADRTNAPS FQNSSNHPGG GSAHTRPSRA PVGRFDRSRR PFRNSGPGSS  
 851 APRSFKRQRD APR

L20 ANSWER 8 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:942764 HCAPLUS  
 DN 140:3792  
 TI Genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics  
 IN Nevins, Joseph; West, Mike; Goldschmidt, Pascal  
 PA Duke University, USA  
 SO PCT Int. Appl., 408 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

| PATENT NO.   | KIND   | DATE     | APPLICATION NO. | DATE         |
|--------------|--|----------|-----------------|--------------|
| WO2003091391 | A2   | 20031106 | 2002WO-XA38221  | 20021112 <-- |
| W:           | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW |          |                 |              |
| RW:          | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  |          |                 |              |

NE, SN, TD, TG

WO2003091391 A2 20031106 2002WO-US38221 20021112 <--

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI 2002US-374547P P 20020423 <--  
 2002US-420784P P 20021024 <--  
 2002US-421043P P 20021025 <--  
 2002US-424680P P 20021108 <--  
 2002WO-US38221 A 20021112 <--

AB Genes whose expression is correlated with an determinant of an atherosclerotic phenotype are provided. Also provided are methods of using the subject atherosclerotic determinant genes in diagnosis and treatment methods, as well as drug screening methods. In addition, reagents and kits thereof that find use in practicing the subject methods are provided. Also provided are methods of determining whether a gene is correlated with a disease phenotype, where correlation is determined using a Bayesian anal.

IT 391964-05-9  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (amino acid sequence; genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16 ) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPVTF PGRSLMMKSL  
 51 LFI SIVIIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNPW QKLRNEKHHI  
 101 RVKKAQSLAE QTS DTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA  
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL  
 201 TLQRHPLEKE YWMGMEPDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA  
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT  
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR  
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP  
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC  
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPENILNC GQHQAELCH  
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK  
 551 CGNHTCSQVC HPQPCQQCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM  
 601 DVPVSCGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR  
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG  
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP  
 751 ECTQTCARVH ECDHPVYHSG HSEKCPPCT FLTQKWCMDK HEFRSNIPCH  
 801 LVDISGCLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP  
 851 CMAPCHTSSP CPVTACKAKV ELQCEGRRK EMVICSEASS TYQRIAAISM  
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDECSALER KKRLAEAFHI  
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN  
 1001 SKKSHSFPPM NRDRHRIIHD LAQVYGLESV SYDSEPKNRV VVTAIRGKSV  
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF  
 1101 DVQD

L20 ANSWER 9 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:913280 HCAPLUS

DN 139:379453

TI Genes showing altered patterns of expression in multiple sclerosis and their diagnostic and therapeutic uses

IN Dangond, Fernando; Hwang, Daehee

PA Brigham and Women's Hospital, Inc., USA  
 SO PCT Int. Appl., 148 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | WO2003095618  | A2   | 20031120 | 2003WO-US14462  | 20030507 <-- |
|      | WO2003095618  | A3   | 20041021 |                 |              |
|      | W:  |      |          |                 |              |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, |      |          |                 |              |
|      | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, |      |          |                 |              |
|      | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, |      |          |                 |              |
|      | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, |      |          |                 |              |
|      | PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, |      |          |                 |              |
|      | TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW                      |      |          |                 |              |
|      | RW:   |      |          |                 |              |
|      | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, |      |          |                 |              |
|      | KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, |      |          |                 |              |
|      | FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, |      |          |                 |              |
|      | BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
|      | US2004018522  | A1   | 20040129 | 2003US-0430762  | 20030506 <-- |
|      | AU2003228936  | A1   | 20031111 | 2003AU-0228936  | 20030507 <-- |
| PRAI | 2002US-379284P  | P    | 20020509 | <--             |              |
|      | 2003US-0430762  | A1   | 20030506 |                 |              |
|      | 2003WO-US14462  | W    | 20030507 |                 |              |

AB The present invention identifies a number of gene markers whose expression is altered in multiple sclerosis (MS). These markers can be used to diagnose or predict MS in subjects, and can be used in the monitoring of therapies. In addition, these genes identify therapeutic targets, the modification of which may prevent MS development or progression. Genes were identified by determination of expression profiling. A large number of genes showing altered patterns of expression were identified, with the most discriminatory genes being those for: phosphatidylinositol transfer protein; inducible nitric oxide synthase, CIC-1 (CLCN1) muscle chloride channel protein, placental bikunin (AMBP), receptor kinase ligand LERK-3/Ephrin-A3, GATA-4, thymopoietin, transcription factor E2f-2, S-adenosylmethionine synthetase, carcinoembryonic antigen, the ret oncogene, a G protein-linked receptor (clone GPCR W), GTP- binding protein RALB, tyrosine kinase Syk, LERK-2/Ephrin-B1, ELK1 tyrosine kinase oncogene, transcription factor SL1, phospholipase C, gastricsin (progastricsin), and the D13S824E locus.

IT 391964-05-9  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
 (Biological study)  
 (amino acid sequence; genes showing altered patterns of expression in multiple sclerosis and their diagnostic and therapeutic uses)

RN 391964-05-9 HCAPLUS  
 CN NFX1 (human cell line Raji clone NFX.1 cDNA #16 ) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL  
 51 LFISIVIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNPW QKLRNEKHII  
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA  
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL  
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA  
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT  
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR  
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASPQ ADGQSGWRCP ACQNVSAHVP  
 401 NTFSCFCGKV KNPEWSRNEI PHSCGCEVCRK KQPGQDCPHS CNLLCHPGPC  
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH  
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK  
 551 CGNHTCSQVC HPQPCQCQPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM  
 601 DPVPSGCKVC GKPLPCGSLD FIHTCEKLCH EGDGCPVSRT SVISCRCSFR  
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG  
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP  
 751 ECTQTCAVH ECDHPVYHSG HSEKCPPTCT FLTQKWCWGK HEFRSNIPCH  
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP

851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM  
 901 ASKITDMLQG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI  
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN  
 1001 SKKSHSFPPM NRDRRIIHD LAQVYGLESV SYDSEPKNRV VVTAIRGKSV  
 1051 CPPTTLTGVL EREMQRPPP PIPHRHQSD KNPSSNLQK ITKEPIIDYF  
 1101 DVQD

L20 ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:837371 HCAPLUS  
 DN 139:333132  
 TI Targets for therapeutic intervention identified in the human mitochondrial  
 proteome  
 IN Ghosh, Soumitra S.; Fahy, Eoin D.; Zhang, Bing; Gibson, Bradford W.;  
 Taylor, Steven W.; Glenn, Gary M.; Warnock, Dale E.  
 PA Mitokor, USA; The Buck Institute for Age Research  
 SO PCT Int. Appl., 180 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | WO2003087768  | A2   | 20031023 | 2003WO-US10870  | 20030404 <-- |
|      | WO2003087768  | A3   | 20051124 |                 |              |
|      | W:  |      |          |                 |              |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,   |      |          |                 |              |
|      | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,   |      |          |                 |              |
|      | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,   |      |          |                 |              |
|      | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,   |      |          |                 |              |
|      | PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,   |      |          |                 |              |
|      | TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  |      |          |                 |              |
|      | RW:   |      |          |                 |              |
|      | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,   |      |          |                 |              |
|      | KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,   |      |          |                 |              |
|      | FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,   |      |          |                 |              |
|      | BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
|      | US2004101874  | A1   | 20040527 | 2003US-0408765  | 20030404 <-- |
| PRAI | 2002US-372843P  | P    | 20020412 | <--             |              |
|      | 2002US-389987P  | P    | 20020617 | <--             |              |
|      | 2002US-412418P  | P    | 20020920 | <--             |              |
| AB   | Mitochondrial targets for drug screening assays and for therapeutic<br>intervention in the treatment of diseases associated with altered<br>mitochondrial function are provided. Complete amino acid sequences are<br>provided for 3025 polypeptides that comprise the human heart mitochondrial<br>proteome, using fractionated proteins derived from highly purified<br>mitochondrial preps., to identify previously unrecognized mitochondrial<br>mol. components. Oxidative post-translational modification of tryptophan<br>residues to N-formylkynurenine in cardiac mitochondrial proteins is also<br>demonstrated by mass spectrometry. |      |          |                 |              |
| IT   | 612115-69-2   |      |          |                 |              |
|      | RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP<br>(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)<br>(amino acid sequence; targets for therapeutic intervention identified<br>in the human mitochondrial proteome)   |      |          |                 |              |
| RN   | 612115-69-2 HCAPLUS   |      |          |                 |              |
| CN   | Protein (human heart clone GenBank gi:13242069 mitochondria-associated)<br>(9CI) (CA INDEX NAME)  |      |          |                 |              |

SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQEKKNSGL NCGTQRRLLDS NRIGRRNYSS  
 51 PPPCHLSRQV PYDEISAVHQ HSYHPSGSKP KSQQTSTFQSS PCNKSPKSHG  
 101 LQNPQWQKLR NEKHHRVKK AQLAEQTS TAGLESSTRS ESGTDLREHS  
 151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLC EWSNRTTPKP  
 201 EDAGEPESTKP VGVFHPDSSE ASSRKGVLG YGARRNEQRR YPQKRPPWEV  
 251 EGARPRPGRN PPKQEGHRHT NAGHRNMGP IPKDDLNERP AKSTCDSEN

301 AVINKSSRRV DQEKCTVRRQ DPQVVSPPSR GKQNHVLKNV EHTGSLIEQ  
 351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ  
 401 SGWRCPACQN VSAHPNNTYT CFCGKVKNP WSRNEIPHSC GEVCRKKQPG  
 451 QDCPHSCNLL CHPGPCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC  
 501 ENILNCGQH QCAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD  
 551 GFGDFSCSKI CGKDLKCGNH TCSQVCHPOP CQOCPRLPQL VRCCPCGQTP  
 601 LSQLELGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC  
 651 GPCSRTSVIS CRCSFRTKEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN  
 701 EICCVCKEKK CPLICGRKLR CGLHRCEEP HRGNCQTCWQ ASFDELTCCH  
 751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ  
 801 KWCMDGKHEFR SNIPCHLVDI SCGLPCSATL PCGMHCKQRL CHKGECLVDE  
 851 PCKQPCCTTPR ADCGHPCMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI  
 901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDDE  
 951 CSALERKKRL AEAFFHSEDS DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV  
 1001 EKEMETLVEA VNKVEVETSH WTFL

L20 ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:697219 HCAPLUS

DN 139:192570

TI Nucleic acid and encoded amino acid sequences relating to Klebsiella pneumoniae for diagnostics and therapeutics

IN Breton, Gary L.; Osborne, Mark

PA Genome Therapeutics Corporation, USA

SO U.S., 932 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE         |
|------|----------------|------|----------|-----------------|--------------|
| PI   | US---6610836   | B1   | 20030826 | 2000US-0489039  | 20000127 <-- |
| PRAI | 1999US-117747P | P    | 19990129 | <--             |              |

AB The invention provides 7171 isolated polypeptide and 7171 genomic nucleic acid sequences derived from Klebsiella pneumoniae strain 93,19097 (ATCC 202080) that are useful in diagnosis and therapy of pathol. conditions. The nucleotide sequences include those of two naturally occurring plasmids in K. pneumoniae. Antibodies against the polypeptides, and methods for the production of recombinant polypeptides are also provided. The invention also provides methods for the detection, prevention, and treatment of pathol. conditions resulting from bacterial infection. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 581882-37-3

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid and encoded amino acid sequences relating to Klebsiella pneumoniae for diagnostics and therapeutics)

RN 581882-37-3 HCAPLUS

CN Protein (Klebsiella pneumoniae strain ATCC202080 clone US6610836-SEQID-8731 open reading frame-encoded) (9CI) (CA INDEX NAME)

SEQ 1 MSLAPRKPGF YIPLRKHISP DCKRDILFRR GTQIQAGDSL GAACYKRLIP  
 51 AAKAKAVNHT RDIPQTFWRD DRLPWLELRS TWRSRQAYKR HSHQQLSVGA  
 101 IIEGETRCLC AGQEYLLQPG DLIVIPPHAP HSCNPLHGRP RSYHMLYLDA  
 151 TWCHAQRDPDI PPGASITSPQ PLLRDSPLFA SFQQVVALMS RGSLEQLPAR  
 201 LAQLLHALPL CAAAPQAPHH ASALLFQCLA MDLPASPSLD KLAHDSALRK  
 251 ETVIRAVKQD TGLTPASLIN MARIEYAKTR LRAGDPIADV GYQAGFADQS  
 301 HFHKTFVSYT AATPRQYAQS RSISDNK

L20 ANSWER 12 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:511464 HCAPLUS

DN 139:64457

TI Nucleic acids and their encoded polypeptides from human tissues

IN Tang, Y. Tom; Asundi, Vinod; Goodrich, Ryle W.; Ren, Feiyan; Zhang, Jie; Zhao, Qing A.; Wang, Jian-rui; Ghosh, Malabika; Xue, Aidong J.; Wehrman, Tom; Weng, Gezhi; Zhou, Ping; Drmanac, Radoje T.; Wang, Zhiwei; Ma, Yuning; Wang, Dunrui; Chen, Rui-hong; Xu, Chongjun; Boyle, Bryan J.

PA Hyseq, Inc., USA; et al.

SO PCT Int. Appl., 1177 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 123

|      | PATENT NO.     | KIND   | DATE     | APPLICATION NO. | DATE         |
|------|----------------|--|----------|-----------------|--------------|
| PI   | WO2003054152   | A2   | 20030703 | 2002WO-US39555  | 20021210 <-- |
|      | WO2003054152   | A3   | 20041216 |                 |              |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW |          |                 |              |
|      | RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |              |
|      | US2004219521   | A1   | 20041104 | 2002US-0128558  | 20020422 <-- |
|      | CA---2469941   | AA   | 20030703 | 2002CA-2469941  | 20021210 <-- |
|      | EP---1504099   | A2   | 20050209 | 2002EP-0805571  | 20021210 <-- |
|      | R:             | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK   |          |                 |              |
| PRAI | 2001US-339739P | P  | 20011210 | <--             |              |
|      | 2001US-339453P | P  | 20011211 | <--             |              |
|      | 2002US-365091P | P  | 20020314 | <--             |              |
|      | 2002US-365384P | P  | 20020314 | <--             |              |
|      | 2002US-372381P | P  | 20020412 | <--             |              |
|      | 2002US-372615P | P  | 20020412 | <--             |              |
|      | 2002US-0128558 | A2   | 20020422 | <--             |              |
|      | 2002US-376045P | P  | 20020424 | <--             |              |
|      | 2000US-0488725 | A2   | 20000121 | <--             |              |
|      | 2000US-0491404 | B2   | 20000125 | <--             |              |
|      | 2000US-0552317 | B2   | 20000425 | <--             |              |
|      | 2000WO-US35017 | A2   | 20001222 | <--             |              |
|      | 2001WO-US02623 | A2   | 20010125 | <--             |              |
|      | 2001WO-US03800 | A  | 20010205 | <--             |              |
|      | 2001WO-US04927 | A  | 20010226 | <--             |              |
|      | 2001WO-US04941 | A  | 20010305 | <--             |              |
|      | 2001WO-US08631 | A  | 20010330 | <--             |              |
|      | 2001WO-US08656 | A  | 20010416 | <--             |              |
|      | 2002WO-US39555 | W  | 20021210 | <--             |              |

AB The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof. Thus, 911 novel nucleic acids were obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, SBH (sequencing-by-hybridization) sequence signature anal., and Sanger sequencing techniques. Novel contigs of the invention were assembled from sequences that were obtained from a cDNA library by the above methods, and in some cases sequences obtained from one or more public databases, using a recursive algorithm to extend the seed EST into an extended assemblage. Tissue expression profiles and nearest neighbor sequence homologies are provided. The sequences of this invention have applications in nucleic acid or polypeptide arrays, in the identification of binding mols., and in treatment of diseases.

IT 548553-97-5P  
 RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)  
 RN 548553-97-5 HCAPLUS  
 CN Protein (human clone WO03054152-SEQID-1231) (9CI) (CA INDEX NAME)

SEQ 1 MPVMSQLLSV HSEPSLLFLL TFPHSCNPPS LPSSSLSLSL THTHTHTHTH  
 51: STHTHISRVL Q

L20 ANSWER 13 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:409169 HCAPLUS  
 DN 138:380506  
 TI Genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses  
 IN Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke, Martin; Lemke, Britt; Hacker, Christine  
 PA Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin  
 SO PCT Int. Appl., 285 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

|      | PATENT NO.     | KIND   | DATE         | APPLICATION NO. | DATE         |
|------|----------------|--|--------------|-----------------|--------------|
| PI   | WO2003038130   | A2   | 20030508     | 2002WO-XA34888  | 20021031 <-- |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |              |                 |              |
|      | RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |              |                 |              |
|      | WO2003038130   | A2   | 20030508     | 2002WO-US34888  | 20021031 <-- |
|      | WO2003038130   | A3   | 20040212     |                 |              |
|      | WO2003038130   | C1   | 20040422     |                 |              |
|      | W:             | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW                                     |              |                 |              |
|      | RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |              |                 |              |
| PRAI | 2001US-335048P | P  | 20011031 <-- |                 |              |
|      | 2001US-335183P | P  | 20011102 <-- |                 |              |
|      | 2002WO-US34888 | A  | 20021031 <-- |                 |              |

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2

chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. [This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 391964-05-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16 ) (9CI) (CA INDEX NAME)

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SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
51 LFISIVIIRQ EGKPKSQOTS FQSSPCNKSP KSHGLQNPW QKLRNEKHII
101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPENILNC GQHQAELCH
501 GGQCQPCQII LNQVCYCGST SRDVLCTGTV GKSDGFGDFS CLKTCGKDLK
551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
601 DPVPSCGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
751 ECTQTCARVH ECDHPVYHSG HSEKCPPCT FLTQKWCWGK HEFRSNIPCH
801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
1101 DVQD

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L20 ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:381677 HCAPLUS

DN 138:349762

TI Nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics

IN Breton, Gary; Bush, David

PA Genome Therapeutics Corporation, USA

SO U.S., 328 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE         |
|------|--|------|----------|-----------------|--------------|
| PI   | US---6562958   | B1   | 20030513 | 1999US-0328352  | 19990604 <-- |
|      | US---6562958   | B1   | 20030513 | 1999US-0328352  | 19990604 <-- |
| PRAI | 1998US-088701P   | P    | 19980609 | <--             |              |
|      | 1999US-0328352   | A    | 19990604 | <--             |              |
| AB   | The invention provides 4126 nucleic acid sequences derived from a genomic library of <i>Acinetobacter baumannii</i> strain 15839, as well as the derived open reading frames and protein-coding sequences. These sequences are |      |          |                 |              |

useful in diagnosis and therapy of pathol. conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathol. conditions resulting from bacterial infection. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 518375-13-8

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics)

RN 518375-13-8 HCAPLUS

CN Protein (*Acinetobacter baumannii* strain 15839 clone US6562958-SEQID-4825 open reading frame-encoded) (9CI) (CA INDEX NAME)

SEQ 1 VDLYPDRIIA VLDSMGVICA LGDLP HSCNH VAGIHL YDAY HRLLEHGK RK  
51 TLMVLPNCQT MVGLNFFNLI W

L20 ANSWER 15 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:282587 HCAPLUS

DN 138:266971

TI Nucleic acids and their encoded polypeptides from human tissues

IN Tang, Tom Y.; Zhang, Jie; Ren, Feiyan; Xue, Aidong J.; Zhao, Qing A.; Wang, Jian-rui; Wehrman, Tom; Zhou, Ping; Ghosh, Malabika; Wang, Dunrui; Ma, Yungqing; Asundi, Vinod; Wang, Zhiwei; Weng, Gezhi; Haley-Vicente, Dana; Drmanac, Rodoje T.

PA Hyseq, Inc., USA

SO PCT Int. Appl., 1185 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|---|------|----------|-----------------|--------------|
| WO2003029271  | A2   | 20030410 | 2002WO-US30474  | 20020924 <-- |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG<br>CA---2461280 AA 20030410 2002CA-2461280 20020924 <--<br>EP---1430112 A2 20040623 2002EP-0780359 20020924 <--<br>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK<br>PRAI 2001US-324631P P 20010924 <--<br>2002WO-US30474 W 20020924 <-- |      |          |                 |              |

AB The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof. Thus, 971 novel nucleic acids were obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, SBH (sequencing-by-hybridization) sequence signature anal., and Sanger sequencing techniques. Novel contigs of the invention were assembled from sequences that were obtained from a cDNA library by the above methods, and in some cases sequences obtained from one or more public databases, using a recursive algorithm to extend the seed EST into an extended assemblage. Tissue expression profiles and

nearest neighbor sequence homologies are provided. The sequences of this invention have applications in nucleic acid or polypeptide arrays, in the identification of binding mols., and in treatment of diseases. The present invention claims a total of 6180 cDNA sequences, and discusses an addnl. 6180 encoded polypeptide sequences, but the Sequence Listing was not made available on publication of the patent application.

IT 503262-18-8P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)

RN 503262-18-8 HCAPLUS

CN Protein (human clone WO03029271-SEQID-3115 contig) (9CI) (CA INDEX NAME)

SEQ 1 MEEVDHESKD VSGLWNLQRK VHIREKPYGC NEHGKVFRVS SSLTNRQVIH  
51 IADKTYKCSD CGEIFSSNSN FAQHQRHTG EKPYPYNECG KVFNQNSHLA  
101 QHQKIHTGQK PYNKKECGKV FSHHAYLAQH RKIHTGEKPY KCSECGKAFS  
151 VCSSLTAHLV IHTGEKPYDC KECGKVFRHK SSLTTHQTVH TGERPYKCNE  
201 CGKGFSRIAF LARHRKVHTG EKPYPYNECG KVFIGNSRLA RHRKIHTGGR  
251 RYKNECGKA FRTCSDLTAH LLIHTGEKPY ECIDCGKVFR HKSSSLTYHCR  
301 IHTGEKPYKC NECGKVFSQN SNLQHRHKIH TGEKLYKCNE CGKVFRQNSH  
351 LAQHRDIHTG EKPYSNECG KVFRRNHSLV RHRNVHTGEK PYSCNECGKV  
401 FSRNSHLARH RNIHTGEKPH SCNECGKVFS RNSHLARHK IHTGEKLYKC  
451 NECSKVFSRN SRLAQHRNIH TGVKPYSCNE CGKVFSKNSI LVQHCSIHTR  
501 EKP

L20 ANSWER 16 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:55959 HCAPLUS

DN 138:84325

TI Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

AU Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica; Helton, Erin; Kettelman, Mark; Madan, Anuradha; Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle; Madan, Anup; Young, Alice C.; Shevchenko, Yuriy; Bouffard, Gerard G.; Blakesley, Robert W.; Touchman, Jeffrey W.; Green, Eric D.; Dickson, Mark C.; Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy; Myers, Richard M.; Butterfield, Yaron S. N.; Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane E.; Schnerch, Angeliue; Schein, Jacqueline E.; Jones, Steven J. M.; Marra, Marco A.

CS National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA

SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903

CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

AB The National Institutes of Health Mammalian Gene Collection (MGC) Program

is a multiinstitutional effort to identify and sequence a cDNA clone containing a complete ORF for each human and mouse gene. ESTs were generated from libraries enriched for full-length cDNAs and analyzed to identify candidate full-ORF clones, which then were sequenced to high accuracy. The MGC has currently sequenced and verified the full ORF for a nonredundant set of >9000 human and >6000 mouse genes. Candidate full-ORF clones for an addnl. 7800 human and 3500 mouse genes also have been identified. All MGC sequences and clones are available without restriction through public databases and clone distribution networks. [This abstract record is one of eleven records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 479888-56-7

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; generation and initial anal. of more than 15,000 full-length human and mouse cDNA sequences)

RN 479888-56-7 HCAPLUS

CN Protein FLJ14299 (human clone MGC:44951 IMAGE:5527569) (9CI) (CA INDEX NAME)

SEQ 1 MSDSPAGSNP RTPESSGSGS GGGGKRPAPV AAVSLLPPAD PLRQANRLPI  
51 RVLKMLSAHT GHLLHPEYLQ PLSSTPVSP I ELDAKKSPLA LLAQTCSQIG  
101 KPDP PPPSSKL NSVAAAANG L GA EKDPGRSA PGAASAAAAL KQLGDS PAED  
151 KSSFKPYSKG SGGGDSRKDS GSSSVSSTSS SSSSPGDKA GFRVPSAACP  
201 PFP PHGAPVS ASSSSSPGG SRGGSPHSD CKNGGGVGGG ELDKKDQEPK  
251 PSPEPAAVSR GGGGEPGAHG GAESGASGRK SEPPSALVGA GHVAPVSPYK  
301 PGHSVFPLPP SSIGYHGSIV GAYAGYPSQF VPGLDPSKSG LVGGQLSGGL  
351 GLPPGKPPSS SPLTGASPPS FLQGLCRDPY CLGGYHGASH LGGSSCSTCS  
401 AHDPAGPSLK AGGYPLVYPG HPLQPAALSS SAAQAALPGH PLYTYGFMLQ  
451 NEPLPHSCNW VAASGPCDKR FATSEELLSH LRTHTALPGA EKLLAAYPGA  
501 SGLGSAAAAA AAAASCHLHL PPPAAPGSPG SLSLRNPHTL GLSRYHPYKG  
551 SHLSTAGGLA VPSLPTAGPY YSPYALYGQR LASASALGYQ

L20 ANSWER 17 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:55946 HCAPLUS

DN 138:84320

TI Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

AU Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica; Helton, Erin; Kettelman, Mark; Madan, Anuradha; Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle; Madan, Anup; Young, Alice C.; Shevchenko, Yuriy; Bouffard, Gerard G.; Blakesley, Robert W.; Touchman, Jeffrey W.; Green, Eric D.; Dickson, Mark C.; Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy; Myers, Richard M.; Butterfield, Yaron S. N.; Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones, Steven J. M.; Marra, Marco A.  
CS Mammalian Gene Collection (MGC) Program Team, National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA

SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903  
CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

AB The National Institutes of Health Mammalian Gene Collection (MGC) Program is a multiinstitutional effort to identify and sequence a cDNA clone containing a complete ORF for each human and mouse gene. ESTs were generated from libraries enriched for full-length cDNAs and analyzed to identify candidate full-ORF clones, which then were sequenced to high accuracy. The MGC has currently sequenced and verified the full ORF for a nonredundant set of >9000 human and >6000 mouse genes. Candidate full-ORF clones for an addnl. 7800 human and 3500 mouse genes also have been identified. All MGC sequences and clones are available without restriction through public databases and clone distribution networks. [This abstract record is one of eleven records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 480793-91-7  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
(amino acid sequence; generation and initial anal. of more than 15,000 full-length human and mouse cDNA sequences)

RN 480793-91-7 HCAPLUS

CN Protein (human clone MGC:20369 IMAGE:4558442) (9CI) (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNDAAEF IPQEKNSGL NCGTQRRLLDS NRIGRRNYSS  
51 PPPCHLSRQV PYDEISAVHQ HSYHPSGSKP KSQQTSTFQSS PCNKSPKSHG  
101 LQNQPWQKLR NEKHHRVKK AQSLAEQTS TAGLESSTRS ESGTDLREHS  
151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLC EWSNRTTPKP  
201 EDAGPESTKP VGVFHPDSSE ASSRKGVLDD YGARRNEQRR YPQKRPPWEV  
251 EGARPRPGRN PPKQEGHRHT NAGHRNNMGP IPKDDLNERP AKSTCDSENL  
301 AVINKSSRRV DQEKCTVRRQ DPQVVSFSPR GKQNHVLKNV ETHTGSLIEQ  
351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ  
401 SGWRCPACQN VSAHVPNTYT CFCGKVKNP WSRNEIPHSC GEVCRKKQPG  
451 QDCPHSCNLL CHGPGCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC  
501 ENILNCGQH QCAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD  
551 GFGDFSCCLKI CGKDLKCGNH TCSQVCHPQP CQCCPRLPQL VRCCPCGQTP  
601 LSQLELGGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC  
651 GPCSRTSVIS CRCSFRTEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN  
701 EICCVDEKHK CPLICGRKLR CGLHRCCEPC HRGNCQTCWQ ASFDELTCCH  
751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ  
801 KWCMGKHEFR SNIPCHLVDI SCGLPCSATL PCGMHKCQRL CHKGECCLVDE  
851 PCKQPCTTPR ADCGHPCMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI  
901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDDE  
951 CSALERKKRL AEAFFHSEDS DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV  
1001 EKEMETLVEA VNKGKNSKKS HSFPPMNRDH RRIIHDLAQV YGLESVSYDS  
1051 EPKRNVVVTA IRGKSVCPPT TLTGVLEREM QARPPPIPH HRHQSDKNPG  
1101 SSNLQKITKE PIIDYFDVQD

L20 ANSWER 18 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:6504 HCAPLUS

DN 138:164516

TI Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

AU Okazaki, Y.; Furuno, M.; Kasukawa, T.; Adachi, J.; Bono, H.; Kondo, S.; Nikaido, I.; Osato, N.; Saito, R.; Suzuki, H.; Yamanaka, I.; Kiyosawa, H.; Yagi, K.; Tomaru, Y.; Hasegawa, Y.; Nogami, A.; Schoenbach, C.; Gojobori, T.; Baldarelli, R.; Hill, D. P.; Bult, C.; Hume, D. A.; Quackenbush, J.; Schriml, L. M.; Kanapin, A.; Matsuda, H.; Batalov, S.; Beisel, K. W.; Blake, J. A.; Bradt, D.; Brusic, V.; Chothia, C.; Corbani, L. E.; Cousins,

S.; Dalla, E.; Dragani, T. A.; Fletcher, C. F.; Forrest, A.; Frazer, K. S.; Gaasterland, T.; Gariboldi, M.; Gissi, C.; Godzik, A.; Gough, J.; Grimmond, S.; Gustincich, S.; Hirokawa, N.; Jackson, I. J.; Jarvis, E. D.; Kanai, A.; Kawaji, H.; Kawasaki, Y.; Kedzierski, R. M.; King, B. L.; Konagaya, A.; Kurochkin, I. V.; Lee, Y.; Lenhard, B.; Lyons, P. A.; Maglott, D. R.; Maltais, L.; Marchionni, L.; McKenzie, L.; Miki, H.; Nagashima, T.; Numata, K.; Okido, T.; Pavan, W. J.; Perte, G.; Pesole, G.; Petrovsky, N.; Pillai, R.; Pontius, J. U.; Qi, D.; Ramachandran, S.; Ravasi, T.; Reed, J. C.; Reed, D. J.; Reid, J.; Ring, B. Z.; Ringwald, M.; Sandelin, A.; Schneider, C.; Semple, C. A. M.; Setou, M.; Shimada, K.; Sultana, R.; Takenaka, Y.; Taylor, M. S.; Teasdale, R. D.; Tomita, M.; Verardo, R.; Wagner, L.; Wahlestedt, C.; Wang, Y.; Watanabe, Y.; Wells, C.; Wilming, L. G.; Wynshaw-Boris, A.; Yanagisawa, M.; Yang, I.; Yang, L.; Yuan, Z.; Zavolan, M.; Zhu, Y.; Zimmer, A.; Carninci, P.; Hayatsu, N.; Hirozane-Kishikawa, T.; Konno, H.; Nakamura, M.; Sakazume, N.; Sato, K.; Shiraki, T.; Waki, K.; Kawai, J.; Aizawa, K.; Arakawa, T.; Fukuda, S.; Hara, A.; Hashizume, W.; Imotani, K.; Ishii, Y.; Itoh, M.; Kagawa, I.; Miyazaki, A.; Sakai, K.; Sasaki, D.; Shibata, K.; Shinagawa, A.; Yasunishi, A.; Yoshino, M.; Waterston, R.; Lander, E. S.; Rogers, J.; Birney, E.; Hayashizaki, Y.

CS Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa, 230-0045, Japan

SO Nature (London, United Kingdom) (2002), 420(6915), 563-573  
CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Only a small proportion of the mouse genome is transcribed into mature mRNA transcripts. There is an international collaborative effort to identify all full-length mRNA transcripts from the mouse, and to ensure that each is represented in a phys. collection of clones. The manual annotation of 60,770 full-length mouse cDNA sequences is now reported. These are clustered into 33,409 'transcriptional units', contributing 90.1% of a newly established mouse transcriptome database. Of these transcriptional units, 4258 are new protein-coding and 11,665 are new non-coding messages, indicating that non-coding RNA is a major component of the transcriptome. Forty-one percent of all transcriptional units showed evidence of alternative splicing. In protein-coding transcripts, 79% of splice variations altered the protein product. Whole-transcriptome analyses resulted in the identification of 2431 sense-antisense pairs. The present work, completely supported by phys. clones, provides the most comprehensive survey of a mammalian transcriptome so far, and is a valuable resource for functional genomics. The cDNA sequences are deposited in GenBank/EMBL/DBJ under accession nos. AK002213-AK021412, AK027261-AK054560, AK075567-AK090394, and AK117103-AK117104. [This abstract record is one of thirty records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 493548-19-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; anal. of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs)

RN 493548-19-9 HCAPLUS

CN Protein (mouse strain C57BL/6J clone 9330101C04 818-amino acid) (9CI). (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYNS  
51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN  
101 QPWQKARNEK HQNRNKKAAQ LSEQTSDTSS LESVARSESG TNPREHSPSE  
151 SEKEVVIADP RGAKPKKAAQ LTNYNGRGP AKGRLRSEWG NRMSPKSEDE  
201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR  
251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS  
301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY

351 ECMVCCCELVQ VTAPVWSCQS CFHVFHLNCI KKWARS PASH ADGQSGWRCP  
 401 ACQNVSAHVP NTYTFCFGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS  
 451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC  
 501 GQHHCAELCH GGQCQPCR II LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS  
 551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE  
 601 HGSNARKTCM DPVPSGKVC GKPLACGSSD FIHTCEKLCH EGDGCGCSRT  
 651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV D  
 701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY  
 751 PPVPCGTRPP ECTQTCARIH ECDHPVHSC HSEKCPPCT FLTQKWC MGK  
 801 HEELTIKKLW TFKETLDF

L20 ANSWER 19 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:982555 HCAPLUS

DN 138:84297

TI Analysis of the mouse transcriptome based on functional annotation of  
 60,770 full-length cDNAs

AU Okazaki, Y.; Furuno, M.; Kasukawa, T.; Adachi, J.; Bono, H.; Kondo, S.;  
 Nikaido, I.; Osato, N.; Saito, R.; Suzuki, H.; Yamanaka, I.; Kiyosawa, H.;  
 Yagi, K.; Tomaru, Y.; Hasegawa, Y.; Nogami, A.; Schoenbach, C.; Gojobori,  
 T.; Baldarelli, R.; Hill, D. P.; Bult, C.; Hume, D. A.; Quackenbush, J.;  
 Schriml, L. M.; Kanapin, A.; Matsuda, H.; Batalov, S.; Beisel, K. W.;  
 Blake, J. A.; Bradt, D.; Brusic, V.; Chothia, C.; Corbani, L. E.; Cousins,  
 S.; Dalla, E.; Dragani, T. A.; Fletcher, C. F.; Forrest, A.; Frazer, K.  
 S.; Gaasterland, T.; Gariboldi, M.; Gissi, C.; Godzik, A.; Gough, J.;  
 Grimmond, S.; Gustincich, S.; Hirokawa, N.; Jackson, I. J.; Jarvis, E. D.;  
 Kanai, A.; Kawaji, H.; Kawasaki, Y.; Kedzierski, R. M.; King, B. L.;  
 Konagaya, A.; Kurochkin, I. V.; Lee, Y.; Lenhard, B.; Lyons, P. A.;  
 Maglott, D. R.; Maltais, L.; Marchionni, L.; McKenzie, L.; Miki, H.;  
 Nagashima, T.; Numata, K.; Okido, T.; Pavan, W. J.; Perte, G.; Pesole,  
 G.; Petrovsky, N.; Pillai, R.; Pontius, J. U.; Qi, D.; Ramachandran, S.;  
 Ravasi, T.; Reed, J. C.; Reed, D. J.; Reid, J.; Ring, B. Z.; Ringwald, M.;  
 Sandelin, A.; Schneider, C.; Semple, C. A. M.; Setou, M.; Shimada, K.;  
 Sultana, R.; Takenaka, Y.; Taylor, M. S.; Teasdale, R. D.; Tomita, M.;  
 Verardo, R.; Wagner, L.; Wahlestedt, C.; Wang, Y.; Watanabe, Y.; Wells,  
 C.; Wilming, L. G.; Wynshaw-Boris, A.; Yanagisawa, M.; Yang, I.; Yang, L.;  
 Yuan, Z.; Zavolan, M.; Zhu, Y.; Zimmer, A.; Carninci, P.; Hayatsu, N.;  
 Hirozane-Kishikawa, T.; Konno, H.; Nakamura, M.; Sakazume, N.; Sato, K.;  
 Shiraki, T.; Waki, K.; Kawai, J.; Aizawa, K.; Arakawa, T.; Fukuda, S.;  
 Hara, A.; Hashizume, W.; Imotani, K.; Ishii, Y.; Itoh, M.; Kagawa, I.;  
 Miyazaki, A.; Sakai, K.; Sasaki, D.; Shibata, K.; Shinagawa, A.;  
 Yasunishi, A.; Yoshino, M.; Waterston, R.; Lander, E. S.; Rogers, J.;  
 Birney, E.; Hayashizaki, Y.

CS Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences  
 Center (GSC), Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku,  
 Yokohama, Kanagawa, 230-0045, Japan

SO Nature (London, United Kingdom) (2002), 420(6915), 563-573

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Only a small proportion of the mouse genome is transcribed into mature  
 mRNA transcripts. There is an international collaborative effort to  
 identify all full-length mRNA transcripts from the mouse, and to ensure  
 that each is represented in a phys. collection of clones. The manual  
 annotation of 60,770 full-length mouse cDNA sequences is now reported.  
 These are clustered into 33,409 'transcriptional units', contributing  
 90.1% of a newly established mouse transcriptome database. Of these  
 transcriptional units, 4258 are new protein-coding and 11,665 are new  
 non-coding messages, indicating that non-coding RNA is a major component  
 of the transcriptome. Forty-one percent of all transcriptional units  
 showed evidence of alternative splicing. In protein-coding transcripts,  
 79% of splice variations altered the protein product. Whole-transcriptome  
 analyses resulted in the identification of 2431 sense-antisense pairs.

The present work, completely supported by phys. clones, provides the most comprehensive survey of a mammalian transcriptome so far, and is a valuable resource for functional genomics. The cDNA sequences are deposited in GenBank/EMBL/DDBJ under accession nos. AK002213-AK021412, AK027261-AK054560, AK075567-AK090394, and AK117103-AK117104. [This abstract record is one of thirty records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 326053-89-8

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; anal. of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs)

RN 326053-89-8 HCAPLUS

CN Protein (mouse strain C57BL/6J clone 1300017N15 818-amino acid) (9CI) (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS  
51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN  
101 QPWQKARNEK HQNRNKKAAQG LSEQTSDTSS LESVARSESG TNPREHSPSE  
151 SEKEVVIADP RGAKPKKAAQ LTNYNYGRGPK AKGRLRSEWG NRMSPKSEDE  
201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR  
251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS  
301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY  
351 ECMVCCELVQ VTAPVWSCQS CFHVFHLNCI KKWARSASH ADGQSGWRCP  
401 ACQNVSAHVP NTYTFCFGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS  
451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC  
501 GQHHCAELCH GGQCQPCRRII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS  
551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE  
601 HGSNARKTCM DPVPSCGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT  
651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV  
701 KEHKCPKICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY  
751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWCMMGK  
801 HEELTIKKLW TFKETLDF

L20 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:752116 HCAPLUS

DN 137:289735

TI Sequence of Plasmodium falciparum chromosomes 1, 3-9 and 13

AU Hall, N.; Pain, A.; Berriman, M.; Churcher, C.; Harris, B.; Harris, D.; Mungall, K.; Bowman, S.; Atkin, R.; Baker, S.; Barron, A.; Brooks, K.; Buckee, C. O.; Burrows, C.; Cherevach, I.; Chillingworth, C.; Chillingworth, T.; Christodoulou, Z.; Clark, L.; Clark, R.; Corton, C.; Cronin, A.; Davies, R.; Davis, P.; Dear, P.; Dearden, F.; Doggett, J.; Feltwell, T.; Goble, A.; Goodhead, I.; Gwilliam, R.; Hamlin, N.; Hance, Z.; Harper, D.; Hauser, H.; Hornsby, T.; Holroyd, S.; Horrocks, P.; Humphray, S.; Jagels, K.; James, K. D.; Johnson, D.; Kerhornou, A.; Knights, A.; Konfortov, B.; Kyes, S.; Larke, N.; Lawson, D.; Lennard, N.; Line, A.; Maddison, M.; McLean, J.; Mooney, P.; Moule, S.; Murphy, L.; Oliver, K.; Ormond, D.; Price, C.; Quail, M. A.; Rabinowitsch, E.; Rajandream, M.-A.; Rutter, S.; Rutherford, K. M.; Sanders, M.; Simmonds, M.; Seeger, K.; Sharp, S.; Smith, R.; Squares, R.; Squares, S.; Stevens, K.; Taylor, K.; Tivey, A.; Unwin, L.; Whitehead, S.; Woodward, J.; Sulston, J. E.; Craig, A.; Newbold, C.; Barrell, B. G.

CS The Wellcome Trust Sanger Institute, Hinxton, Cambridge, CB10 1SA, UK

SO Nature (London, United Kingdom) (2002), 419(6906), 527-531

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Since the sequencing of the first two chromosomes of the malaria parasite, Plasmodium falciparum, there has been a concerted effort to sequence and

assemble the entire genome of this organism. This report provides the sequence of chromosomes 1, 3-9 and 13 of *P. falciparum* clone 3D7; these chromosomes account for .apprx.55% of the total genome. The methods used to map, sequence and annotate these chromosomes is described. By comparing these assemblies with the optical map, the completeness of the resulting sequence is indicated. During annotation, Gene Ontol. terms were assigned to the predicted gene products, and clustering of some malaria-specific terms to specific chromosomes was observed. A highly conserved sequence element was found in the intergenic region of internal var genes that is not associated with their telomeric counterparts.

IT 467533-29-5

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; sequence of *Plasmodium falciparum* chromosomes 1, 3-9 and 13)

RN 467533-29-5 HCAPLUS

CN Protein (*Plasmodium falciparum* strain 3D7 gene PFI1410c) (9CI) (CA INDEX NAME)

```

SEQ      1 MNLHSAIYPL YKLVTIKPTH KKKSVPLYWV ALKSTSINNV EGNIKKCKRW
      51 NEECYKLKKK VPSKNEDDID IDKLNMYMRK ERERKKKNKI KEKDNNNDNN
     101 NDDNNNDNNN DNNNEEEEEK NYKKEGYFKY HDYDYDYHRD DVMKASIHMN
     151 KKENIWNMFN LDNKGYIKNV NIKINDTHLM DECINYCNTW NIQKICYKNV
     201 ANNNIHIIEK LETTPLERNN IINDKMDNIN NQANKMNSTY NNNNNNNNS
     251 CYNNEIKTF DHQEKNIHTP TNTNDIYDIN NYDILENEH SLEIMKKKNS
     301 YNKLFDENDA RLKWDTOYDT YYSNDDIKYF NQYNDHNYWN YIYTLDLNKN
     351 VYLNLDGRNK PIQFLNKFQI LQILYENIDK VLETDNLNMC YNTDNIKIYD
     401 NFQKNKICVR NTFNFDVSVK QKDLIHPHQ GNNLKELDKG EKKKKNSVHY
     451 FEEIILLKYI INFKYDKNKE INEIENPNKK HDNVNFFYHI LNRIEFISVS
     501 FNLRESIFIL CFFYLYNFLS FEILNKFQI ILLHIHDLNI VQTLILLNIY
     551 GTFKSNYEDV IHLLLMYFYN IQGTHLSKYN LKENKITKKQ NKNDHKFVY
     601 YNHDESICTH DIPMKDNTYN VTYDMIFLNI CLQYNIHINN SLMLFFTKYH
     651 IHFYKNKIDS SLIPFQCFCF LTDGKNEHLF FKTLSQSFSS LNTHIVQOTS
     701 PGLRHILKNL QQNITTPRFT IEQLSKIISA LNFLDIEKWI RHMFTYIKRY
     751 NYMGLPKVGD HIKICDDIKT YDGIKTYDDI KTYDGIKTYD HIKTYDGIKT
     801 YDGIKTYDDI DIKTHDDIKT HDEITKRTTF EPPHSCNHKE
     851 QIFKSEHKLK PTYKEETKQN QPFNKHIINA NMKVINFLFF FNIVKNINRY
     901 FLFPFYDKYD LYELLKDEVF PEYKIKYQDG DITFSCLVHT DYKLVNQYED
     951 VKLFYKKDVD NDICHMPYNV ENDQVYSYGE YHKTNETDCL INLTKDDVKN
    1001 LFDNNNNKLN TFLYNYKKIN IQNIPLKFIV DIIYFINKYG QMIIPFKNNI
    1051 NIKENDDINE YILRILSFCY LKIYVLLNSY NNISKEKKYI LSHLYKIINN
    1101 SYLNNNDILN YIPTSLSTLH KDMHMICSKK HFNLLSYFIL NLTKNLLPKT
    1151 KNLYSSYHQN VINSYVQIN INTNINTNTN TNINTINKNY YKLTYSIYKT
    1201 LLSIYYNFFD YIKESFDILI FLKNSKNIFF SLCIYLYNIA KIMMLKHPYD
    1251 MTLQYLLSSL YNINIKINNN GNINNNNDNN DLYIPLEIYK LILNLLKKCI
    1301 SFFYLHKDNI IQHIVSNDV IDFLNLSYF NISLYYYKYL LNIIQTNDTM
    1351 PQEKKTSRDN HINNTYNTVM STYEEETTCT YYQQYHDNIF SYFFKHLIQI
    1401 KTNICINDLNE SNKLILFKTL TKLFVFNKYK NVLHMDHITI LLNQIMHFVI
    1451 IHHMYISKHN YFFIISYIN LKKNYDIVKQ DKTFNHTAYQ KLAHICEQII
    1501 I

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## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Adhya, S                   | 1989          | 23           | 227         | Annu Rev Genet           | HCAPLUS            |
| Apweiler, R                | 2001          | 29           | 37          | Nucleic Acids Res        | HCAPLUS            |
| Ashburner, M               | 2000          | 25           | 25          | Nature Genet             | HCAPLUS            |
| Bateman, A                 | 2002          | 30           | 276         | Nucleic Acids Res        | HCAPLUS            |
| Berriman, M                | 2001          | 17           | 463         | Trends Parasitol         | MEDLINE            |
| Bowman, S                  | 1999          | 400          | 532         | Nature                   | HCAPLUS            |
| Cawley, S                  | 2001          | 118          | 167         | Mol Biochem Parasito     | HCAPLUS            |
| Claros, M                  | 1996          | 241          | 779         | Eur J Biochem            | HCAPLUS            |

|                   |      |     |      |                      |         |
|-------------------|------|-----|------|----------------------|---------|
| de Bruin, D       | 1992 | 14  | 332  | Genomics             | HCAPLUS |
| Deitsch, K        | 2001 | 412 | 875  | Nature               | HCAPLUS |
| Emanuelsson, O    | 2000 | 300 | 1005 | J Mol Biol           | HCAPLUS |
| Figueiredo, L     | 2002 | 21  | 815  | EMBO J               | HCAPLUS |
| Florens, L        | 2002 | 419 | 520  | Nature               | HCAPLUS |
| Gardner, M        | 1998 | 282 | 1126 | Science              | HCAPLUS |
| Glockner, G       | 2002 | 418 | 79   | Nature               |         |
| Hapgood, J        | 2001 | 25  | 17   | Cell Biol Int        | HCAPLUS |
| Hyman, R          | 2002 | 419 | 534  | Nature               | HCAPLUS |
| Katinka, M        | 2001 | 414 | 450  | Nature               | HCAPLUS |
| Konfortov, B      | 2000 | 10  | 1737 | Genome Res           | HCAPLUS |
| Krogh, A          | 2001 | 305 | 567  | J Mol Biol           | HCAPLUS |
| Lai, Z            | 1999 | 23  | 309  | Nature Genet         | HCAPLUS |
| Lasonder, E       | 2002 | 419 | 531  | Nature               |         |
| Nielsen, H        | 1999 | 12  | 3    | Protein Eng          | HCAPLUS |
| O'Donnell, R      | 2002 | 21  | 1231 | EMBO J               | HCAPLUS |
| Pachebat, J       | 2001 | 117 | 83   | Mol Biochem Parasito | HCAPLUS |
| Piper, M          | 1998 | 8   | 1299 | Genome Res           | HCAPLUS |
| Quail, M          | 2001 | 12  | 355  | DNA Seq              | HCAPLUS |
| Rutherford, K     | 2000 | 16  | 944  | Bioinformatics       | HCAPLUS |
| Salzberg, S       | 1999 | 59  | 24   | Genomics             | HCAPLUS |
| Sonnhammer, E     | 1998 | 6   | 175  | Proc Int Conf Intell | MEDLINE |
| Su, X             | 1999 | 286 | 1351 | Science              | HCAPLUS |
| Vazquez-Macias, A | 2002 | 45  | 155  | Mol Microbiol        | HCAPLUS |
| Zdobnov, E        | 2001 | 17  | 847  | Bioinformatics       | HCAPLUS |

L20 ANSWER 21 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:631705 HCAPLUS

DN 138:297158

TI Suppression of Tumor Recurrence and Metastasis by a Combination of the PHSCN Sequence and the Antiangiogenic Compound Tetrathiomolybdate in Prostate Carcinoma

AU van Golen, Kenneth L.; Bao, Liwei; Brewer, George J.; Pienta, Kenneth J.; Kamradt, Jeffrey M.; Livant, Donna L.; Merajver, Sofia D.

CS Division of Hematology and Oncology, Department of Internal Medicine, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, 48109-0948, USA

SO Neoplasia (New York, NY, United States) (2002), 4(5), 373-379  
CODEN: NEOPFL; ISSN: 1522-8002

PB Nature Publishing Group

DT Journal

LA English

AB Plasma fibronectin-mediated invasion of human DU145 prostate cancer cell line was efficaciously inhibited in a rat tumor model by treatment with Ac-PHSCN-NH2 peptide. Invasion of DU145 cells was stimulated by the PHSRN sequence of plasma fibronectin. However, PHSCN acts as a competitive inhibitor of PHSRN-mediated invasion. In the current study, we determined whether PHSCN could inhibit the recurrence and metastasis of DU145 tumors after excision of the primary tumor in an athymic nude mouse model. We demonstrated that mice treated thrice weekly with i.v. Ac-PHSCN-NH2 peptide survived tumor-free for more than 30 wk post-primary tumor excision, whereas their untreated counterparts succumbed to recurrence and/or metastatic disease in significantly less time. Because of the universal requirement for angiogenesis in solid tumor growth, we tested the efficacy of copper deficiency induced by tetrathiomolybdate (TM) to retard tumor growth in the Dunning prostate cancer model. Significant reduction in size of the primary tumor was observed in mice rendered copper deficient. We sought to reduce tumor growth at the primary and metastatic sites by combining the anti-invasion Ac-PHSCN-NH2 peptide with TM. Improved survival, fewer metastatic lesions, and excellent tolerability were observed with the combination therapy.

IT 262438-43-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

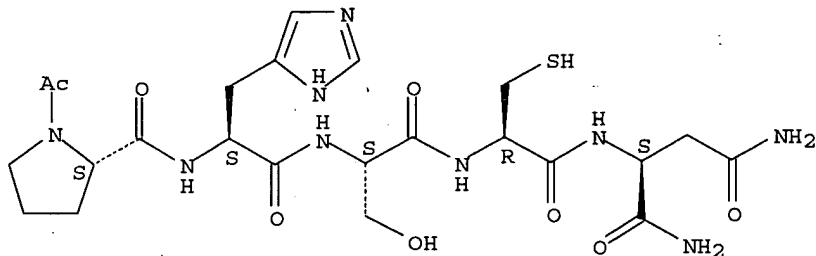
(suppression of tumor recurrence and metastasis by a combination of PHSCN sequence and the antiangiogenic compound tetrathiomolybdate in

prostate carcinoma)  
 RN 262438-43-7 HCAPLUS  
 CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)  
 (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



# RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Allen, M                   | 1998          | 29           | 311         | Hum Pathol               | MEDLINE            |
| American Cancer Society    | 2002          |              |             | Cancer Facts and Fig     |                    |
| Livant, D                  | 1995          | 55           | 5085        | Cancer Res               | HCAPLUS            |
| Livant, D                  | 2000          | 60           | 309         | Cancer Res               | HCAPLUS            |
| Mosher, D                  | 1984          | 35           | 561         | Annu Rev Med             | HCAPLUS            |
| Nozue, M                   | 2001          | 8            | 1247        | Oncol Rep                | MEDLINE            |
| Partin, A                  | 2001          | 58           | 843         | Urology                  | MEDLINE            |
| Rokhlin, O                 | 1995          | 26           | 205         | Prostate                 | HCAPLUS            |
| Romanov, V                 | 1999          | 39           | 108         | Prostate                 | HCAPLUS            |
| Schroder, J                | 1998          | 45           | 1807        | Hepatogastroenterolo     | MEDLINE            |
| Smith, D                   | 1999          | 26           | 323         | Urol Clin North Am       | MEDLINE            |
| Trikha, M                  | 1996          | 56           | 5071        | Cancer Res               | HCAPLUS            |
| Uchiyama, A                | 1999          | 81           | 721         | Br J Cancer              | MEDLINE            |
| van Golen, K               | 1996          | 14           | 95          | Clin Exp Metastasis      | HCAPLUS            |
| Webber, M                  | 1995          | 1            | 1089        | Clin Cancer Res          | MEDLINE            |
| Witkowski, C               | 1993          | 119          | 637         | J Cancer Res Clin On     | HCAPLUS            |
| Zheng, D                   | 1999          | 59           | 1655        | Cancer Res               | HCAPLUS            |

L20 ANSWER 22 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:555761 HCAPLUS

DN 137:121939

TI Compositions and methods for the use of fibronectin fragments in the diagnosis of cancer

IN Livant, Donna

PA The Regents of the University of Michigan, USA

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|----|---|------|----------|-----------------|--------------|
| PI | WO2002057786  | A2   | 20020725 | 2002WO-US01189  | 20020115 <-- |
|    | WO2002057786  | A3   | 20031211 |                 |              |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, |      |          |                 |              |

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,  
 GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,  
 GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA---2435320 AA 20020725 2002CA-2435320 20020115 <--

EP---1388013 A2 20040211 2002EP-0713418 20020115 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI 2001US-0765496 A 20010118 <--

2002WO-US01189 W 20020115 <--

OS MARPAT 137:121939

AB The present invention concerns the detection tumors in vivo, the imaging  
 of tumors in vivo, and the imaging of cancerous tissue in pathol. samples.  
 In particular the present invention incorporates the use of fibronectin  
 fragments into these same detection and imaging methods.

IT 262438-43-7 443305-20-2 443305-23-5

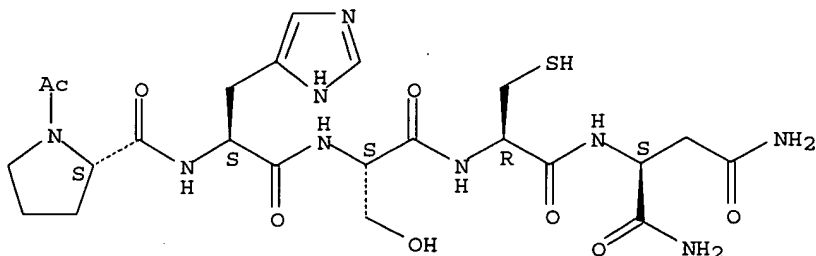
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical  
 study); BIOL (Biological study); USES (Uses)

(compsn. and methods for use of fibronectin fragments in diagnosis of  
 cancer)

RN 262438-43-7 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)  
 (CA INDEX NAME)

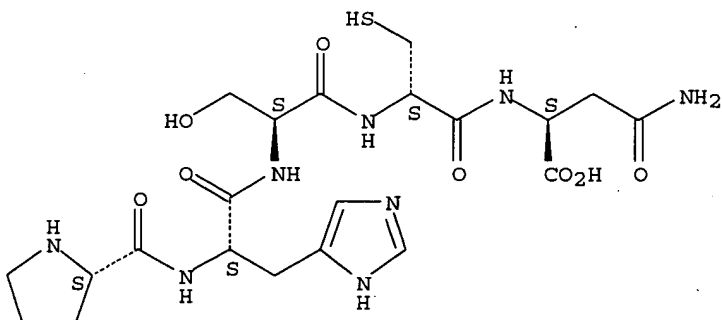
Absolute stereochemistry.



RN 443305-20-2 HCAPLUS

CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-D-cysteinyl- (9CI) (CA INDEX  
 NAME)

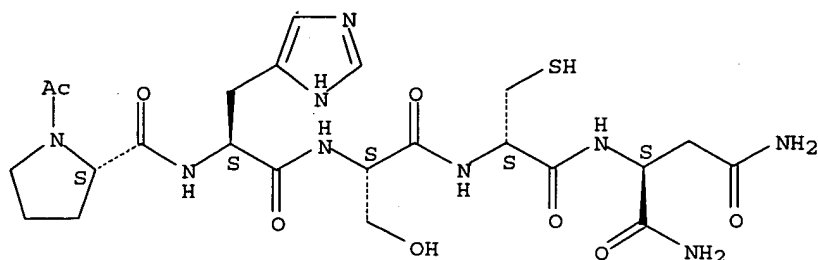
Absolute stereochemistry.



RN 443305-23-5 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-D-cysteinyl- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



IT 252229-85-9P

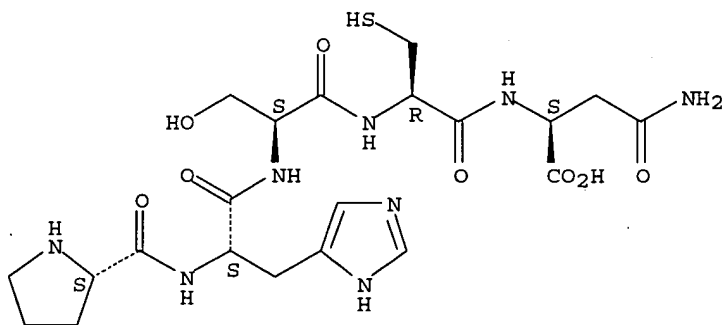
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(comps. and methods for use of fibronectin fragments in diagnosis of cancer)

RN 252229-85-9 HCAPLUS

CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinylnyl- (9CI) (CA INDEX NAME)

SEQ 1 PHSCN

Absolute stereochemistry.



L20 ANSWER 23 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:471209 HCAPLUS

DN 138:302256

TI Murine NFX.1: Isolation and characterization of its messenger RNA, mapping of its chromosomal location and assessment of its developmental expression

AU Arlotta, Paola; Miyazaki, Dai; Copeland, Neal G.; Gilbert, Debra J.; Jenkins, Nancy A.; Ono, Santa J.

CS The Schepens Eye Research Institute, Harvard Medical School, Boston, MA, USA

SO Immunology (2002), 106(2), 173-181

CODEN: IMMUAM; ISSN: 0019-2805

PB Blackwell Science Ltd.

DT Journal

LA English

AB The authors have previously isolated (by expression cloning) a human cDNA, termed NFX.1, encoding a nucleic acid-binding protein that interacts with the conserved X1 box cis-element first discovered in class II major histocompatibility complex (MHC) genes. Functional studies involving expression of NFX.1 and assessment of expression from class II reporter constructs and endogenous class II MHC genes indicated that the factor could repress transcription of class II MHC genes. Subsequent studies have extended the biol. significance of the factor, indicating that it

plays an important role in neuronal development. Indeed, the reiterated RING finger motifs in the central domain of the polypeptide strongly suggest that NF-X1 is a probable E3 ubiquitin protein ligase, indicating that the protein may have multiple activities. Here the authors report the cloning of the mouse homolog of the human NfX.1 cDNA: m-Nfx.1. Comparison of the deduced primary sequence of mouse and human NFX.1 proteins shows very high homol. and confirms that m-NFX.1 contains the conserved cysteine-rich DNA-binding motif first described in human NFX.1 (95% homol.). Expression of MHC class II genes is substantially reduced following expression of m-NFX.1, which confirms that the authors have isolated the functional murine homolog of human NfX.1 cDNA. Further evidence comes from the mapping of m-Nfx.1 gene to the proximal region of mouse chromosome 4, a region syntenic to the location of human Nfx.1 (short arm of chromosome 9). Expression profiling show that m-NFX.1 is expressed ubiquitously in both adult tissues and during development, supporting the hypothesis that it may have yet-undescribed roles in distinct biol. processes.

IT 484154-74-7

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; sequence characterization, chromosomal mapping, and developmental expression for NFX.1 transcription factor of mouse)

RN 484154-74-7 HCAPLUS

CN Transcription factor NFX.1 (Mus musculus gene Nfx1) (9CI) (CA INDEX NAME)

```

SEQ      1 MAEAPPVSGT FKFNDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS
      51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN
     101 QPWQKARNEK HQNRNKKAAQ LSEQTSDTSS LESVARSESG TNPREHSPSE
     151 SEKEVVIADP RGAKPKKAAQ LTYNVGRGPK AKGRLRSEWG NRMSPKSEDE
     201 IPDPWRFPPTL TLQIASCRKP VVDPCVCRRN EQRRYPQKRP PLGSGRARPR
     251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS
     301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY
     351 ECMVCCCELQV VTAPVWSCQS CFHVFHLNCI KKWARS PASH ADGQSGWRCP
     401 ACQNVSAHVP NTYTCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS
     451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC
     501 GQHHCAELCH GGQCQPCRII LNQVCYCGST SRDVLGCTDV GKSDGFGDFS
     551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE
     601 HGSNARKTCM DPVPSCGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT
     651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD
     701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY
     751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWC MGK
     801 HELRSNIPCH LVDISGGLPC SAMLPCGMHK CQRLCHKGEC LVDEACKQPC
     851 TTPRGDCGHP CMAPCHPSLP CPVTACKAKV ELQCECGRRK EMVICSEASG
     901 TYQRIVAISM ASKITDMQLG DSVEISKLIT KKEVQQARLQ CDEECAALER
     951 RKRLAEAFDI TDDSDPFNVR SSASKFSDSL KDDARKDLKF VSDVEKEMET
    1001 LVEAVNKGKN NKKSHCFPPM NRDHRRIIHD LAQVYGLESI SYDSEPKNRV
    1051 VVTAVRGKSV CPPTLTLSVI ERETQTRPPP PIPHHRHQAD KAPGSSTLQK
    1101 IVKEAVIDYF DVQD
  
```

# RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Abdulkadir, S              | 1995          | 9            | 1429        | FASEB J                  | HCAPLUS            |
| Abdulkadir, S              | 1995          | 182          | 487         | J Exp Med                | MEDLINE            |
| Benichou, B                | 1991          | 88           | 4285        | Proc Natl Acad Sci U     | HCAPLUS            |
| Chapman, H                 | 1998          | 10           | 93          | Curr Opin Immunol        | HCAPLUS            |
| Copeland, N                | 1991          | 7            | 113         | Trends Genet             | HCAPLUS            |
| Douhan, J                  | 1996          | 8            | 255         | Int Immunol              | HCAPLUS            |
| Durand, B                  | 1994          | 14           | 6839        | Mol Cell Biol            | HCAPLUS            |
| Glimcher, L                | 1992          | 10           | 13          | Annu Rev Immunol         | HCAPLUS            |
| Harton, J                  | 2000          | 20           | 6185        | Mol Cell Biol            | HCAPLUS            |
| Harton, J                  | 2000          | 20           | 6185        | Mol Cell Biol            | HCAPLUS            |

|                |      |     |       |                      |         |
|----------------|------|-----|-------|----------------------|---------|
| Hume, C        | 1989 | 26  | 288   | Hum Immunol          | HCAPLUS |
| Jenkins, N     | 1982 | 43  | 26    | J Virol              | HCAPLUS |
| King, D        | 1983 | 131 | 315   | J Immunol            | HCAPLUS |
| Lander, E      | 2001 | 409 | 860   | Nature               | HCAPLUS |
| Marbois, B     | 1994 | 15  | 83    | Arch Biochem Biophys |         |
| Masternak, K   | 1998 | 20  | 273   | Nat Genet            | HCAPLUS |
| Matsushima, G  | 1994 | 78  | 645   | Cell                 | HCAPLUS |
| McDevitt, H    | 1998 | 10  | 677   | Curr Opin Immunol    | HCAPLUS |
| Morales, J     | 1999 | 96  | 14470 | Proc Natl Acad Sci U | HCAPLUS |
| Song, Z        | 1994 | 180 | 1763  | J Exp Med            | HCAPLUS |
| Steimle, V     | 1993 | 75  | 135   | Cell                 | HCAPLUS |
| Stroumbakis, N | 1996 | 16  | 192   | Mol Cell Biol        | HCAPLUS |
| Tai, A         | 1999 | 36  | 447   | Mol Immunol          | HCAPLUS |
| Ting, J        | 1993 | 12  | 65    | Immunol Res          | HCAPLUS |
| Wert, S        | 1993 | 156 | 426   | Dev Biol             | HCAPLUS |
| Wright, K      | 1994 | 13  | 4042  | EMBO J               | HCAPLUS |

L20 ANSWER 24 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:459968 HCAPLUS

DN 137:1525

TI Cloning, protein and cDNA sequence of human nuclear transcription factor-2 and their uses in therapy and diagnosis

IN Sha, Jiahao; Zhou, Zuomin; Li, Jianmin

PA Nanjing Medical Univ., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, \*7 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE         | APPLICATION NO. | DATE         |
|------|----------------|------|--------------|-----------------|--------------|
| PI   | CN---1318556   | A    | 20011024     | 2001CN-0113502  | 20010411 <-- |
| PRAI | 2001CN-0113502 |      | 20010411 <-- |                 |              |

AB The invention provides full-length cDNA sequence (3,613 bp) and ORF (open reading frame) sequence (3,075 bp, its coding 1024 amino acids) of one human nuclear transcription factor-2 (NFX2). The invention relates to preparation of fusion protein in which NFX2 is fused with GST. The invention also relates to preparation of monoclonal antibody and polyclonal antibody. The invention also relates to preparation of biochip for detecting mutations in gene NFX21 encoding nuclear transcription factor-2 and for drug screening. The invention further relates to application of fusion protein of NFX2 in treating NFX2-related diseases.

IT 432839-50-4P

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; cloning, protein and cDNA sequence of human nuclear transcription factor-2 and their uses in therapy and diagnosis)

RN 432839-50-4 HCAPLUS

CN Transcription factor NFX2 (nuclear transcription factor-2) (human) (9CI) (CA INDEX NAME)

```

SEQ      1 MAEAPPVSGT FKFNTDAAEF IPQEKKNGL NCGTQRRLLS NRIGRRNYSS
      51 PPPCHLSRQV PYDEISAVHQ HSYHPGSKP KSQTSFQSS PCNKSPKSHG
     101 LQNQPWQKLR NEKHHRVKK AQSLAEQTS TAGLESSTRS ESGTDLREHS
     151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLC EWSNRTTPKP
     201 EDAGPESTKP VGFVHPDSSE ASSRKGVLDT YGARRNEQRR YPQKRPPWEV
     251 EGARPRPGRN PPKQEGHRHT NAGHRNNMGP IPKDDLNERP AKSTCDSENL
     301 AVINKSSRRV DQEKCTVRRQ DPQVVSFSPR GKQNHVKNV ETHTGSLIEQ
     351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ
     401 SGWRCPACQN VSAHVPNTYT CFCGKVKNP WSRNEIPHSC GEVCRKKQPG
     451 QDCPHSCNLL CHPGPCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC
     501 ENILNCGQH QCAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD
     551 GFGDFSCLKI CGKDLKCGNH TCSQVCHPOP CQCCPRLPQL VRCCPCGQTP
     601 LSQLELGGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC

```

651 GPCSRSTVIS CRCSFRTKEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN  
 701 EICCVDEKHK CPLICGRKLR CGLHRCEEPK HRGNCQTCWQ ASFDELTCCH  
 751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ  
 801 KWCMDGHEFR SNIPCHLVDI SCGLPCSATL PCGMHKCQRL CHKGECVLDE  
 851 PCKQPCTTPR ADCGHPMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI  
 901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDDE  
 951 CSALERKKRL AEAFHISED DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV  
 1001 EKEMETLVEA VNKVEVETSH WTFL

L20 ANSWER 25 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2002:72748 HCAPLUS  
 DN 136:146104  
 TI Human stress genes identified using DNA microarrays  
 IN Chenchik, Alex; Lukashev, Matvey E.  
 PA Clontech Laboratories, Inc., USA  
 SO U.S. Pat. Appl. Publ., 57 pp.; Cont.-in-part of U.S. Ser. No. 441,920.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE         |
|------|----------------|------|----------|-----------------|--------------|
| PI   | US2002009730   | A1   | 20020124 | 2001US-0782909  | 20010213 <-- |
| PRAI | 1998US-0222256 | B2   | 19981228 | <--             |              |
|      | 1999US-0440305 | B2   | 19991117 | <--             |              |
|      | 1999US-0441920 | A2   | 19991117 | <--             |              |

AB Human stress arrays and methods for their use are provided. The subject arrays include a plurality of polynucleotide spots, each of which is made up of a polynucleotide probe composition of unique polynucleotides corresponding to a human stress gene. The average length of the polynucleotide probes is 50-1000 nucleotides. The d. of the spots on the array did not exceed 400/cm<sup>2</sup> and the spots had a diameter ranging between 10 and 5000 µm. Furthermore, the number of polynucleotide probe spots on the array ranged between 50 and 2000 nucleotides. The subject arrays find use in hybridization assays, particularly in assays for the identification of differential gene expression of human stress genes. Two hundred thirty-six different human stress genes were identified using this approach.

IT 391964-05-9  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (amino acid sequence; human stress genes identified using DNA microarrays)  
 RN 391964-05-9 HCAPLUS  
 CN NFX1 (human cell line Raji clone NFX.1 cDNA #16 ) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL  
 51 LFISIVIIHQ EGKPKSQOTS FQSSPCNKSP KSHGLQNPW QKLRNEKHHI  
 101 RVKKAQSLAE QTS DTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA  
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL  
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA  
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT  
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR  
 351 VTAPVWSCQS CYHVFHLNCI KKWARS PASQ ADGQSGWRCP ACQNVSAHVP  
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC  
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH  
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK  
 551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLE LGSSSRKTCM  
 601 DPVPSGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR  
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG  
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDL TCHCGASVIY PPVPCGTRPP  
 751 ECTQTCARVH ECDHPVYHSG HSSEKCPPCT FLTQKWCMDG HEFRSNIPCH

801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP  
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM  
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI  
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN  
 1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV  
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF  
 1101 DVQD

L20 ANSWER 26 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:872086 HCAPLUS  
 DN 136:32768  
 TI Nucleic acids and their encoded polypeptides from human tissues  
 IN Tang, Y. Tom; Liu, Chenghua; Drmanac, Radoje T.  
 PA Hyseq, Inc., USA  
 SO PCT Int. Appl., 831 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 124

|      | PATENT NO.     | KIND | DATE         | APPLICATION NO.  | DATE         |
|------|----------------|------|--------------|--|--------------|
| PI   | WO2001088088   | A2   | 20011122     | 2001WO-XB14827   | 20010516 <-- |
|      | W:             |      |              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |              |
|      | RW:            |      |              | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |              |
|      | WO2001088088   | A2   | 20011122     | 2001WO-US14827   | 20010516 <-- |
|      | WO2001088088   | A3   | 20021031     |  |              |
|      | W:             |      |              | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |              |
|      | RW:            |      |              | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |              |
| PRAI | 2000US-0577408 | A    | 20000518 <-- |  |              |
|      | 2001WO-US14827 | W    | 20010516 <-- |  |              |

AB The present invention provides a collection or library of 8051 nucleic acid contig sequences assembled from expressed sequence tag or cDNA libraries isolated mainly by sequencing by hybridization (SBH), standard PCR, Sanger sequencing techniques, and in some cases, sequences obtained from one or more public databases. The cDNA libraries are from human tissue sources and nearest neighbor sequence homologies are provided. The invention also relates to the proteins encoded by such polynucleotides, along with therapeutic, diagnostic and research utilities for these polynucleotides and proteins. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 376373-52-3

RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)

RN 376373-52-3 HCAPLUS

CN Peptide, (Gln-Leu-Gln-Ala-Met-Ala-Ile-Phe-Glu-Tyr-Leu-Lys-Thr-Phe-Leu-

Arg-Pro-Gly-Thr-Val-Pro-His-Ser-Cys-Asn-Pro-Ser-Thr-Leu-Gly-Gly-Arg-Gly-  
Gly-Trp-Ile-Thr-Xaa-Gly-Gln-Glu-Leu-Glu-Ala-Ser-Pro) (9CI) (CA INDEX  
NAME)

SEQ 1 QLQAMAIFEY LKKTFLRPGT VPHSCNPSTL GGRGGWITXG QELEASP

L20 ANSWER 27 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:834397 HCAPLUS  
DN 136:65028  
TI Complete genomic sequence of the filamentous nitrogen-fixing  
cyanobacterium *Anabaena* sp. strain PCC 7120  
AU Kaneko, Takakazu; Nakamura, Yasukazu; Wolk, C. Peter; Kuritz, Tanya;  
Sasamoto, Shigemi; Watanabe, Akiko; Iriguchi, Mayumi; Ishikawa, Atsuko;  
Kawashima, Kumiko; Kimura, Takaharu; Kishida, Yoshie; Kohara, Mitsuyo;  
Matsumoto, Midori; Matsuno, Ai; Muraki, Akiko; Nakazaki, Naomi; Siumpo,  
Sayaka; Sugimoto, Masako; Takazawa, Masaki; Yamada, Manabu; Yasuda, Miho;  
Tabata, Satoshi  
CS Kazusa DNA Research Institute, Chiba, 292-0812, Japan  
SO DNA Research (2001), 8(5), 205-213  
CODEN: DARSE8; ISSN: 1340-2838  
PB Universal Academy Press  
DT Journal  
LA English  
AB The nucleotide sequence of the entire genome of a filamentous  
cyanobacterium, *Anabaena* sp. strain PCC 7120, was determined. The genome of  
*Anabaena* consisted of a single chromosome (6,413,771 bp) and six plasmids,  
designated pCC7120 $\alpha$  (408,101 bp), pCC7120 $\beta$  (186,614 bp),  
pCC7120 $\gamma$  (101,965 bp), pCC7120 $\delta$  (55,414 bp), pCC7120 $\epsilon$   
(40,340 bp), and pCC7120 $\zeta$  (5,584 bp). The chromosome bears 5368  
potential protein-encoding genes, four sets of rRNA genes, 48 tRNA genes  
representing 42 tRNA species, and 4 genes for small structural RNAs. The  
predicted products of 45% of the potential protein-encoding genes showed  
sequence similarity to known and predicted proteins of known function, and  
27% to translated products of hypothetical genes. The remaining 28%  
lacked significant similarity to genes for known and predicted proteins in  
the public DNA databases. More than 60 genes involved in various  
processes of heterocyst formation and nitrogen fixation were assigned to  
the chromosome based on their similarity to the reported genes. One  
hundred and ninety-five genes coding for components of two-component  
signal transduction systems, nearly 2.5-fold as many as those in  
*Synechocystis* sp. PCC 6803, were identified on the chromosome. Only 37%  
of the *Anabaena* genes showed significant sequence similarity to those of  
*Synechocystis*, indicating a high degree of divergence of the gene  
information between the two cyanobacterial strains.  
IT 374860-51-2  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(amino acid sequence; complete genomic sequence of filamentous  
nitrogen-fixing cyanobacterium *Anabaena* sp. strain PCC 7120)  
RN 374860-51-2 HCAPLUS  
CN Cation transport ATPase (*Nostoc* sp. PCC 7120 gene all2908) (9CI) (CA  
INDEX NAME)

SEQ 1 MTATKPETSK QVAQSSIIA GVAYSVVHTI PGRIRFRVPL VAHDLYYAQR  
51 LQELLESDSH ILEVVRNPWA ASVAIRYEQS ASNRLIEAYL VGLLHQAKFR  
101 QPSTVNRRQV TKSDNAGVKL PVLATVLA VL GLGFPIPRAI IAATVGLAAL  
151 PVAKRAYTSI TQKRKLNIDC LDFIAIALTS AQGNLLTPAL VMTLHEIGDI  
201 IRDRTARVTE NHAADLLASL GHYAWVAQPD GQKKRLLATQ VQPQDTVIVY  
251 PGEQIPVDGQ ILRGKALIDQ QKLTGESMPV LRQVGEAVYA STLLREGEIY  
301 IQAERVGTAT RAGASIELVQ QAPVHDTRMG NYAADIADQA ILPSLIFAGL  
351 VFAATRNPAP AASILTLDFV TGIRVSLPTT FLAALHHATR HGVLIRSGRA

401 LEKLAQVDTL VFDKTGTLTK GDIEVVEVEI IADRITTHRL IALATAAEQR  
 451 LTHPVAEAVV RYAEKQGI EI LPRQEFYEI GLGVRAEIDG EQVIVGSDRF  
 501 LRQCGIPLDC LYEPHSCNHA DCPKHLNCRI SAHDSLLYVA VNQEFQGVY  
 551 YTDPLRPESP AVIEKLQTEY GMEIHLTGD NQGRAMAVAA ELHLPLFQVH  
 601 AEAFFPAQKAE IIQKFHDSGK TVAFTGDGLN DSIALAYADV AISFGSGSEV  
 651 ARETADVVLMD DNLTSFLEA IAIARQTQAV IKQNISLAVV PNLAALGLAT  
 701 TVGIHPLAAT VVHNGSAIAA GLNGLRPLMH KDPPR

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Altschul, S                | 1997          | 25           | 3389        | Nucl Acids Res           | HCAPLUS            |
| Bancroft, I                | 1989          | 171          | 5940        | J Bacteriol              | HCAPLUS            |
| Bancroft, I                | 1989          | 171          | 5949        | J Bacteriol              | HCAPLUS            |
| Bancroft, I                | 1988          | 16           | 7405        | Nucleic Acids Res        | HCAPLUS            |
| Corry, M                   | 1974          | 46           | 63          | FEBS Lett                | HCAPLUS            |
| Delcher, A                 | 1999          | 27           | 4636        | Nucleic Acids Res        | HCAPLUS            |
| Duyvesteyn, M              | 1983          | 134          | 276         | Arch Microbiol           | HCAPLUS            |
| Golden, J                  | 1998          |              | 162         | Bacterial genomes ph     | HCAPLUS            |
| Gorbalenya, A              | 1998          | 26           | 1741        | Nucleic Acids Res        | HCAPLUS            |
| Gorodkin, J                | 2001          | 29           | 169         | Nucleic Acids Res        | HCAPLUS            |
| Iwasaki, H                 | 2000          | 41           | 1013        | Plant Cell Physiol       | HCAPLUS            |
| Janda, L                   | 1996          | 178          | 1487        | J Bacteriol              | HCAPLUS            |
| Kaneko, T                  | 1995          | 2            | 153         | DNA Res                  | HCAPLUS            |
| Kaneko, T                  | 1996          | 3            | 109         | DNA Res                  | HCAPLUS            |
| Kumano, M                  | 1983          | 24           | 219         | Gene                     | HCAPLUS            |
| Kuritz, T                  | 1993          | 8            | 101         | Mol Microbiol            | HCAPLUS            |
| Lambert, G                 | 1984          | 781          | 45          | Biochim Biophys Acta     | HCAPLUS            |
| Ligon, P                   | 1991          | 19           | 4553        | Nucleic Acids Res        | HCAPLUS            |
| Linden, H                  | 1994          | 24           | 369         | Plant Mol Biol           | HCAPLUS            |
| Lowe, T                    | 1997          | 25           | 955         | Nucleic Acids Res        | HCAPLUS            |
| Matveyev, A                | 2001          | 29           | 1491        | Nucl Acids Res           | HCAPLUS            |
| Mizuno, T                  | 1996          | 3            | 407         | DNA Res                  | HCAPLUS            |
| Motallebi-Veshareh, M      | 1990          | 4            | 1455        | Mol Microbiol            | HCAPLUS            |
| Muro-Pastor, A             | 1994          | 176          | 1093        | J Bacteriol              | HCAPLUS            |
| Muro-Pastor, A             | 1997          | 268          | 589         | J Mol Biol               | HCAPLUS            |
| Neer, E                    | 1994          | 371          | 297         | Nature                   | HCAPLUS            |
| Padhy, R                   | 1988          | 170          | 1934        | J Bacteriol              | HCAPLUS            |
| Pietrovski, S              | 1996          | 12           | 287         | Trends Genet             | MEDLINE            |
| Riley, M                   | 1993          | 57           | 862         | Microbiol Rev            | HCAPLUS            |
| Shizuya, H                 | 1992          | 89           | 8794        | Proc Natl Acad Sci       | HCAPLUS            |
| Simon, R                   | 1978          | 136          | 414         | J Bacteriol              | HCAPLUS            |
| van der Biezen, E          | 1998          | 8            | 226         | Curr Biol                | HCAPLUS            |
| Vioque, A                  | 1992          | 20           | 6331        | Nucleic Acids Res        | HCAPLUS            |
| Watanabe, T                | 1998          | 1396         | 97          | Biophys Acta             | HCAPLUS            |
| Watanabe, T                | 1997          | 416          | 302         | FEBS Lett                | HCAPLUS            |
| Wolk, C                    | 2000          |              | 83          | Prokaryotic developm     | HCAPLUS            |
| Wolk, C                    | 1994          |              | 769         | The molecular biolog     | HCAPLUS            |
| Wu, H                      | 1998          | 95           | 9226        | Proc Natl Acad Sci       | HCAPLUS            |
| Xu, M                      | 1990          | 250          | 1566        | Science                  | HCAPLUS            |
| Xu, X                      | 1997          | 179          | 2884        | J Bacteriol              | HCAPLUS            |

L20 ANSWER 28 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:828435 HCAPLUS

DN 137:42609

TI Human nucleic acids and polypeptides and their diagnostic and therapeutic uses

IN Drmanac, Rodoje T.; Liu, Chenghua; Tang, Y. Tom

PA Hyseq, Inc., USA

SO PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 124

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | WO2001075067  | A2   | 20011011 | 2001WO-XA08631  | 20010330 <-- |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW   |      |          |                 |              |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
|      | WO2001075067  | A2   | 20011011 | 2001WO-US08631  | 20010330 <-- |
|      | WO2001075067  | A3   | 20020404 |                 |              |
|      | WO2001075067  | C2   | 20021031 |                 |              |
|      | WO2001075067  | C1   | 20041014 |                 |              |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW   |      |          |                 |              |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
| PRAI | 2000US-0540217  | A    | 20000331 | <--             |              |
|      | 2000US-0649167  | A    | 20000823 | <--             |              |
|      | 2001WO-US08631  | W    | 20010330 | <--             |              |
| AB   | The present invention provides 30,368 nucleic acids and the 30,368 novel human polypeptide sequences encoded by these nucleic acids. A plurality of novel nucleic acids are obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, sequencing by hybridization signature anal., and Sanger sequencing techniques. Nearest neighbor results are identified by sequence homol. searching. The invention also relates to therapeutic, diagnostic, and research utilities for these polynucleotides and proteins. [This abstract record is one of 10 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.] |      |          |                 |              |
| IT   | 437844-19-4   |      |          |                 |              |
|      | RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)   |      |          |                 |              |
|      | (amino acid sequence; human nucleic acids and polypeptides and their diagnostic and therapeutic uses)   |      |          |                 |              |
| RN   | 437844-19-4 HCAPLUS   |      |          |                 |              |
| CN   | Protein (human clone WO0175067-SEQID-57487) (9CI) (CA INDEX NAME)   |      |          |                 |              |

SEQ 1 MRQDGKVARQ LLVIGEMVRQ RSAAGNKEGD KTPQPIPLTA QGSKPYQYHQ  
51 EGTPI SAPKI KPVSI VGD KK QMDLSTVQKY ADGVATHNLD HASYHVEGDT  
101 VPDMDPQWNY QRASQDLKCK NHMTEKVRNF KCERELAQGN STGFEMEGRS  
151 GKDGLEYELSG PQLTARKEVP HSCNCKNLNM ADDLNQLLIK ATPFTISVSP  
201 VRGSSCYISW FPDQRARAVC GRPPWRINAV AEHREGTGTW HLESGRLKLV  
251 CVWCERGVLS RGD TGQVQTK PTPLGTMLKN FKKEFKGDYG VTMIPGKLRT  
301 LCEIDWP AFE GGNLAFLGDL KGCDLKNFQ ELINQSAIVH PQADVWWYCG  
351 GPLLGTLPE

L20 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:818860 HCAPLUS  
DN 136:80679  
TI Complete genome sequence of Salmonella enterica serovar typhimurium LT2

AU McClelland, Michael; Sanderson, Kenneth E.; Spleth, John; Clifton, Sandra W.; Latreille, Phil; Courtley, Laura; Porwolilk, Steffen; All, Johar; Daute, Mike; Du, Felyu; Hou, Shunfang; Layman, Dan; Leonard, Shawn; Nguyen, Christine; Scott, Kelsi; Holmes, Andrea; Grewal, Neenu; Mulvaney, Elizabeth; Ryan, Ellen; Sun, Hul; Florea, Lillana; Miller, Webb; Stoneking, Tamberiy; Nhan, Michael; Waterston, Robert; Wilson, Richard K.

CS Sidney Kimmel Cancer Center, San Diego, CA, 92121, USA

SO Nature (London, United Kingdom) (2001), 413(6858), 852-856

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB *Salmonella enterica* subspecies I, serovar typhimurium (*S. typhimurium*), is a leading cause of human gastroenteritis, and is used as a mouse model of human typhoid fever. The incidence of non-typhoid salmonellosis is increasing worldwide, causing millions of infections and many deaths in the human population each year. The 4857-kilobase (kb) chromosome and 94-kb virulence plasmid of *S. typhimurium* strain LT2 has now been sequenced. The distribution of close homologs of *S. typhimurium* LT2 genes in 8 related enterobacteria was determined using previously completed genomes of 3 related bacteria, sample sequencing of both *S. enterica* serovar paratyphi A (*S. paratyphi* A) and *Klebsiella pneumoniae*, and hybridization of 3 unsequenced genomes to a microarray of *S. typhimurium* LT2 genes. Lateral transfer of genes is frequent, with 11% of the *S. typhimurium* LT2 genes missing from *S. enterica* serovar Typhi (*S. typhi*), and 29% missing from *Escherichia coli* K12. The 352 gene homologs of *S. typhimurium* LT2 confined to subspecies I of *S. enterica* - containing most mammalian and bird pathogens - are useful for studies of epidemiol., host specificity, and pathogenesis. Most of these homologs were previously unknown, and 50 may be exported to the periplasm or outer membrane, rendering them accessible as therapeutic or vaccine targets. The sequences are available from the GenBank database under Accession Nos. AE006468 (chromosome) and AE006471 (pSTL).

IT 384930-08-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; complete genome sequence of *Salmonella enterica* serovar typhimurium LT2)

RN 384930-08-9 HCAPLUS

CN GDP-D-mannose dehydratase in colanic acid gene cluster (*Salmonella enterica* typhimurium strain LT2; SGSC 1412; ATCC 700720 gene gmd) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD

51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE

101 YTADVDMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP

151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK

201 ITRAIANIAQ GLESCLYLGN MDSLRLDWGHA KDYVRMQWMM LQQEQPEDFV

251 IATGVQYSVR QFVELAAAQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP

301 GDVIVAVDPR YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND

351 LEAAKKHSL L KSHGYEVAIA LES

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
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| Anon                       | 1996          |              |             | Cellular and Molecul     |                    |
| Bermudes, D                | 2000          | 465          | 57          | Adv Exp Med Biol         | MEDLINE            |
| Blanc-Potard, A            | 1999          | 181          | 998         | J Bacteriol              | HCAPLUS            |
| Blattner, F                | 1997          | 277          | 1453        | Science                  | HCAPLUS            |
| Bumann, D                  | 2000          | 27           | 357         | FEMS Immunol Med Mic     | HCAPLUS            |
| Chalker, R                 | 1988          | 10           | 111         | Rev Infect Dis           | MEDLINE            |

|                    |      |     |       |                      |         |
|--------------------|------|-----|-------|----------------------|---------|
| Cooke, E           | 1990 | 336 | 790   | Lancet               | MEDLINE |
| Decker, K          | 1999 | 32  | 777   | Mol Microbiol        | HCAPLUS |
| Figuerola-Bossi, N | 2001 | 39  | 260   | Mol Microbiol        | HCAPLUS |
| Florea, L          | 2000 | 28  | 3486  | Nucleic Acids Res    | HCAPLUS |
| Gupta, S           | 1995 | 177 | 4207  | J Bacteriol          | HCAPLUS |
| Lan, R             | 1996 | 13  | 47    | Mol Biol Evol        | HCAPLUS |
| Liu, S             | 1993 | 175 | 4104  | J Bacteriol          | HCAPLUS |
| Liu, S             | 1996 | 93  | 10303 | Proc Natl Acad Sci   | HCAPLUS |
| Matsui, H          | 2001 | 183 | 4652  | J Bacteriol          | HCAPLUS |
| McClelland, M      | 2000 | 28  | 4974  | Nucleic Acids Res    | HCAPLUS |
| Nakai, K           | 1999 | 24  | 34    | Trends Biochem Sci   | HCAPLUS |
| Ochman, H          | 2000 | 405 | 299   | Nature               | HCAPLUS |
| Parkhill, J        | 2001 | 413 | 848   | Nature               | HCAPLUS |
| Perna, N           | 2001 | 409 | 529   | Nature               | HCAPLUS |
| Pizza, M           | 2000 | 287 | 1816  | Science              | HCAPLUS |
| Popoff, M          | 2000 | 151 | 893   | Res Microbiol        | HCAPLUS |
| Porwollik, S       | 2001 | 483 | 1     | Mut Res              | HCAPLUS |
| Reidl, J           | 1991 | 173 | 4862  | J Bacteriol          | HCAPLUS |
| Selander, R        | 1996 |     | 2691  | Cellular and Molecul |         |
| Stanley, T         | 2000 | 182 | 4406  | J Bacteriol          | HCAPLUS |
| Tatusov, R         | 2001 | 29  | 22    | Nucleic Acids Res    | HCAPLUS |
| Todd, E            | 1990 | 336 | 788   | Lancet               | MEDLINE |
| Townsend, S        | 2001 | 69  | 2894  | Infect Immun         | HCAPLUS |

L20 ANSWER 30 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:818857 HCAPLUS

DN 136:15814

TI Complete genome sequence of a multiple drug resistant *Salmonella enterica* serovar typhi CT18

AU Parkhill, J.; Dougan, G.; James, K. D.; Thomson, N. R.; Pickard, D.; Wain, J.; Churcher, C.; Mungall, K. L.; Bentley, S. D.; Holden, M. T. G.; Sebahia, M.; Baker, S.; Basham, D.; Brooks, K.; Chillingworth, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R. M.; Dowd, L.; White, N.; Farrar, J.; Feltwell, T.; Hamlin, N.; Haque, A.; Hien, T. T.; Holroyd, S.; Jagels, K.; Krogh, A.; Larsen, T. S.; Leather, S.; Moule, S.; O'Gaora, P.; Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, B. G.

CS The Sanger Centre, Wellcome Trust Genome Campus, Cambridge, CB10 1SA, UK

SO Nature (London, United Kingdom) (2001), 413(6858), 848-852

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB *Salmonella enterica* serovar typhi (*S. typhi*) is the etiol. agent of typhoid fever, a serious invasive bacterial disease of humans with an annual global burden of approx. 16 million cases, leading to 600,000 fatalities. Many *S. enterica* serovars actively invade the mucosal surface of the intestine but are normally contained in healthy individuals by the local immune defense mechanisms. However, *S. typhi* has evolved the ability to spread to the deeper tissues of humans, including liver, spleen, and bone marrow. The 4,809,037-bp genome was sequenced for a *S. typhi* (CT18) that is resistant to multiple drugs, revealing the presence of hundreds of insertions and deletions compared with the *Escherichia coli* genome, ranging in size from single genes to large islands. Notably, the genome sequence identifies >200 pseudogenes, several corresponding to genes that are known to contribute to virulence in *Salmonella typhimurium*. This genetic degradation may contribute to the human-restricted host range for *S. typhi*. CT18 harbors a 218,150-bp multiple-drug-resistance IncH1 plasmid (pHCM1), and a 106,516-bp cryptic plasmid (pHCM2), which shows recent common ancestry with a virulence plasmid of *Yersinia pestis*.

IT 372050-75-4

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; complete genome sequence of a multiple drug resistant *Salmonella enterica* serovar typhi CT18)

RN 372050-75-4 HCAPLUS

CN GDP-mannose 4,6-dehydratase (Salmonella enterica typhi strain CT18 gene  
STY2321) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD  
51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE  
101 YTADVDMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP  
151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK  
201 ITRAANIAQ GLESCLYLGN MDSL RDWGH KDVVRMQWMM LQQEQPEDFV  
251 IATGVQYSVR QFVELAAAQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP  
301 RDVIVAVDPC YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND  
351 LEAAKKHSL L KSHGYEVAIA LES

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Bakshi, C                  | 2000          | 182          | 2341        | J Bacteriol              | HCAPLUS            |
| Blanc-Potard, A            | 1999          | 181          | 998         | J Bacteriol              | HCAPLUS            |
| Blattner, F                | 1997          | 277          | 1453        | Science                  | HCAPLUS            |
| Doolittle, R               | 1996          | 271          | 470         | Science                  | HCAPLUS            |
| Hashimoto, Y               | 1993          | 175          | 4456        | J Bacteriol              | HCAPLUS            |
| Hensel, M                  | 1999          | 32           | 275         | Mol Microbiol            | HCAPLUS            |
| Hu, P                      | 1998          | 180          | 5192        | J Bacteriol              | HCAPLUS            |
| Ivanhoff, B                | 1995          | 26           | 1           | Southeast Asian J Tr     |                    |
| Jing, D                    | 1999          | 274          | 27287       | J Biol Chem              | HCAPLUS            |
| Kingsley, R                | 2000          | 36           | 1006        | Mol Microbiol            | HCAPLUS            |
| Marcus, S                  | 2000          | 2            | 145         | Microbes Infect          | HCAPLUS            |
| McClelland, M              | 2001          | 413          | 852         | Nature                   | HCAPLUS            |
| Miao, E                    | 2000          | 97           | 7539        | Proc Natl Acad Sci U     | HCAPLUS            |
| Mirolid, S                 | 1999          | 96           | 9845        | Proc Natl Acad Sci U     | HCAPLUS            |
| Neidhardt, F               | 1996          |              |             | Escherichia coli and     |                    |
| Parkhill, J                | 2000          | 404          | 502         | Nature                   | HCAPLUS            |
| Parry, C                   | 1998          | 351          | 1289        | Lancet                   | MEDLINE            |
| Perna, N                   | 2001          | 409          | 529         | Nature                   | HCAPLUS            |
| Perry, R                   | 1997          | 10           | 35          | Clin Microbiol Rev       | HCAPLUS            |
| Prentice, M                | 2001          | 183          | 2586        | J Bacteriol              | HCAPLUS            |
| Reeves, M                  | 1989          | 27           | 313         | J Clin Microbiol         | HCAPLUS            |
| Rosenberg, S               | 1994          | 265          | 405         | Science                  | HCAPLUS            |
| Rutherford, K              | 2000          | 16           | 944         | Bioinformatics           | HCAPLUS            |
| Sanderson, K               | 1998          | 19           | 569         | Electrophoresis          | HCAPLUS            |
| Sherburne, C               | 2000          | 28           | 2177        | Nucleic Acids Res        | HCAPLUS            |
| Townsend, S                | 2001          | 69           | 2894        | Infect Immun             | HCAPLUS            |
| Tsolis, R                  | 1999          | 67           | 6385        | Infect Immun             | HCAPLUS            |
| Wain, J                    | 1998          | 36           | 1683        | J Clin Microbiol         | MEDLINE            |
| Wong, K                    | 1998          | 66           | 3365        | Infect Immun             | HCAPLUS            |
| Zhang, X                   | 2000          | 68           | 3067        | Infect Immun             | HCAPLUS            |

L20 ANSWER 31 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:672668 HCAPLUS

DN 135:328136

TI Human reproductive tract-specific nucleic acids and their encoded proteins  
and antibodies

IN Rosen, Craig A.; Barash, Steven C.; Ruben, Steven M.

PA Human Genome Sciences, Inc., USA

SO PCT Int. Appl., 1297 pp.

CODEN: PIXXD2

DT Patent

LA English

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI WO2001055320 A2 200108022001WO-US01339 20010117

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR,  
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,

IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,  
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,  
BY, KG, KZ, MD, RU, TJ, TM

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,  
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR

PRAI US 2000-PV179065 20000131  
US 2000-PV180628 20000204  
US 2000-PV184664 20000224  
US 2000-PV186350 20000302  
US 2000-PV189874 20000316  
US 2000-PV190076 20000317  
US 2000-PV198123 20000418  
US 2000-PV205515 20000519  
US 2000-PV209467 20000607  
US 2000-PV214886 20000628  
US 2000-PV215135 20000630  
US 2000-PV216647 20000707  
US 2000-PV216880 20000707  
US 2000-PV217487 20000711  
US 2000-PV217496 20000711  
US 2000-PV218290 20000714  
US 2000-PV220963 20000726  
US 2000-PV220964 20000726  
US 2000-PV225757 20000814  
US 2000-PV225270 20000814

AB The present invention relates to novel reproductive tract-related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive tract antigens", and the use of such reproductive tract antigens for detecting disorders of the reproductive tract, particularly the presence of reproductive tract cancer and reproductive tract cancer metastases. More specifically, 2650 isolated reproductive tract-associated cDNA mols. are provided encoding novel reproductive tract-associated polypeptides. Novel reproductive tract polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive tract associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosis, treatment, prophylaxis, and/or prognosis of disorders related to the reproductive tract, including reproductive tract cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compns. for inhibiting the production and function of the polypeptides of the present invention. [This abstract record is the second of three records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 367539-41-1P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; human reproductive tract-specific nucleic acids and their encoded proteins and antibodies)

RN 367539-41-1 HCAPLUS

CN Reproductive tract-specific antigen (human clone HEQBE71 fragment) (9CI)  
(CA INDEX NAME)

SEQ 1 ILDPPLPSA RWDAHVLER N RSEEPGLGP SWLSGPQVMY SGLATNSGIL  
51 GTPGTGWDCC PHSCNQIFX APCLCQTADR RDTVVTKTXL LLGKSPERVQ  
101 GETATSPVRR RGTXDRF

L20 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:208901 HCAPLUS  
 DN 134:217895  
 TI Functional annotation of a full-length mouse cDNA collection  
 AU Kawai, J.; Shinagawa, A.; Shibata, K.; Yoshino, M.; Itoh, M.; Ishii, Y.;  
 Arakawa, T.; Hara, A.; Fukunishi, Y.; Konno, H.; Adachi, J.; Fukuda, S.;  
 Aizawa, K.; Izawa, M.; Nishi, K.; Kiyosawa, H.; Kondo, S.; Yamanaka, I.;  
 Saito, T.; Okazaki, Y.; Gojobori, T.; Bono, H.; Kasukawa, T.; Saito, R.;  
 Kadota, K.; Matsuda, H.; Ashburner, M.; Batalov, S.; Casavant, T.;  
 Fleischmann, W.; Gaasterland, T.; Gissi, C.; King, B.; Kochiwa, H.; Kuehl,  
 P.; Lewis, S.; Matsuo, Y.; Nikaido, I.; Pesole, G.; Quackenbush, J.;  
 Schriml, L. M.; Staubli, F.; Suzuki, R.; Tomita, M.; Wagner, L.; Washio,  
 T.; Sakai, K.; Okido, T.; Furuno, M.; Aono, H.; Baldarelli, R.; Barsh, G.;  
 Blake, J.; Boffelli, D.; Bojunga, N.; Carninci, P.; de Bonaldo, M. F.;  
 Brownstein, M. J.; Bult, C.; Fletcher, C.; Fujita, M.; Gariboldi, M.;  
 Gustincich, S.; Hill, D.; Hofmann, M.; Hume, D. A.; Kamiya, M.; Lee, N.  
 H.; Lyons, P.; Marchionni, L.; Mashima, J.; Mazzarelli, J.; Mombaerts, P.;  
 Nordone, P.; Ring, B.; Ringwald, M.; Rodriguez, I.; Sakamoto, N.; Sasaki,  
 H.; Sato, K.; Schonbach, C.; Seya, T.; Shibata, Y.; Storch, K.-F.; Suzuki,  
 H.; Toyo-oka, K.; Wang, K. H.; Weitz, C.; Whittaker, C.; Wilming, L.;  
 Wynshaw-Boris, A.; Yoshida, K.; Hasegawa, Y.; Kawaji, H.; Kohtsuki, S.  
 CS The RIKEN Genome Exploration Res. Group Phase II Team, Lab. Genome  
 Exploration Res. Group, RIKEN Genomic Sciences Center (GSC), Yokohama  
 Inst., Yokohama, Kanagawa, 230-0045, Japan; The FANTOM Consortium  
 SO Nature (London) (2001), 409(6821), 685-690  
 CODEN: NATUAS; ISSN: 0028-0836  
 PB Nature Publishing Group  
 DT Journal  
 LA English  
 AB The RIKEN Mouse Gene Encyclopaedia Project, a systematic approach to determining  
 the full coding potential of the mouse genome, involves collection and  
 sequencing of full-length cDNAs and phys. mapping of the corresponding  
 genes to the mouse genome. An international functional annotation meeting  
 (FANTOM) was organized to annotate the first 21,076 cDNAs to be analyzed  
 in this project. This report describes the first RIKEN clone collection,  
 which is one of the largest described for any organism. Anal. of these  
 cDNAs extends known gene families and identifies new ones. The sequences  
 are deposited into GenBank with Accession nos. AK002213-AK021412 and  
 AK027261-AK027262. Information about these clones is available at RIKEN  
 (<http://www.gsc.riken.go.jp/e/FANTOM/viewer/>) and Mouse Genome Informatics  
 (<http://www.informatics.jax.org> and mirror sites). [This abstract record is  
 the sixth of 7 records for this document necessitated by the large number of  
 index entries required to fully index the document and publication system  
 constraints.].  
 IT 326053-89-8  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
 (Biological study)  
 (amino acid sequence; functional annotation of a full-length mouse cDNA  
 collection)  
 RN 326053-89-8 HCAPLUS  
 CN Protein (mouse strain C57BL/6J clone 1300017N15 818-amino acid) (9CI) (CA  
 INDEX NAME)  
 SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS  
 51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN  
 101 QPWQKARNEK HQNRNKKAAQG LSEQTSDTSS LESVARSESG TNPRESHSPSE  
 151 SEKEVVIADP RGAKPKKAAQ LTYNYGRGPK AKGRLRSEWG NRMSPKSEDE  
 201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR  
 251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS  
 301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY  
 351 ECMVCCELVQ VTAPVWSCQS CFHVFHLNCI KKWARSPASH ADGQSGWRCP  
 401 ACQNVSAHVP NTYTFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS  
 451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC  
 501 GQHHCAELCH GGQCQPCRII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS

551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE  
 601 HGSNARKTCM DPVPSCGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT  
 651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV  
 701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY  
 751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWC  
 801 HEELTIKKLW TFKETLDF

L20 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:166626 HCAPLUS

DN 134:363141

TI LEPS2, a phosphorus starvation-induced novel acid phosphatase from tomato  
 AU Baldwin, James C.; Karthikeyan, Athikkattuvalasu S.; Raghothama,  
 Kashchandra G.

CS Department of Horticulture and Landscape Architecture, Purdue University,  
 West Lafayette, IN, 47907-1165, USA

SO Plant Physiology (2001), 125(2), 728-737

CODEN: PLPHAY; ISSN: 0032-0889

PB American Society of Plant Physiologists

DT Journal

LA English

AB Phosphate (Pi) is one of the least available plant nutrients found in the soil. A significant amount of phosphate is bound in organic forms in the rhizosphere. Phosphatases produced by plants and microbes are presumed to convert organic phosphorus into available Pi, which is absorbed by plants. In this study we describe the isolation and characterization of a novel tomato (*Lycopersicon esculentum*) phosphate starvation-induced gene (LePS2) representing an acid phosphatase. LePS2 is a member of a small gene family in tomato. The cDNA is 942 bp long and contains an open reading frame encoding a 269-amino acid polypeptide. The amino acid sequence of LePS2 has a significant similarity with a phosphatase from chicken. Distinct regions of the peptide also share significant identity with the members of HAD and DDDD super families of phosphohydrolases. Many plant homologs of LePS2 are found in the databases. The LePS2 transcripts are induced rapidly in tomato plant and cell culture in the absence of Pi. However, the induction is repressible in the presence of Pi. Divided root studies indicate that internal Pi levels regulate the expression of LePS2. The enhanced expression of LePS2 is a specific response to Pi starvation, and it is not affected by starvation of other nutrients or abiotic stresses. The bacterially (*Escherichia coli*) expressed protein exhibits phosphatase activity against the synthetic substrate p-nitrophenyl phosphate. The pH optimum of the enzyme activity suggests that LePS2 is an acid phosphatase.

IT 340053-32-9P, Phosphatase, acid (tomato gene LePS2)

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process)

(amino acid sequence; cloning, sequence and expression of LEPS2, a phosphorus starvation-induced novel acid phosphatase from tomato)

RN 340053-32-9 HCAPLUS

CN Phosphatase, acid (tomato gene LePS2) (9CI) (CA INDEX NAME)

SEQ 1 MAGIVVVVDF DKTIIIEVDSD NWVVDELGAT DLFNQLLPTM PWNSLMDRMM  
 51 KELHTQGKTI QDIEEVLKRV PIHPRIVPAI KSAHALGCDL RVIDANVFF  
 101 IETILKHLGI RDCFSEINTN PGYVDGEGRL RILPYVDFQK SPHSCNLCPP  
 151 NMCKGMIVER IQAKEGKKRM IYLGDGIGDF CPSLKLREAD FVMPRKDFPA  
 201 WNLINKNRTL VKAGVHEWTN GKELEHILLQ WINTINIEES QLLSMENCKF  
 251 QTKHNAAHGA LRPRLVPY

RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Altschul, S                | 1990          | 215          | 403         | J Mol Biol               | HCAPLUS            |
| Aravind, L                 | 1998          | 23           | 127         | Trends Biochem Sci       | HCAPLUS            |
| Ascencio, J                | 1994          | 25           | 1553        | Commun Soil Sci Plan     | HCAPLUS            |
| Baldwin, J                 | 1999          | 99           | S-190       | Plant Physiol            |                    |
| Barber, S                  | 1980          |              | 591         | Role of Phosphorus i     |                    |
| Barret-Lennard, E          | 1982          | 33           | 682         | J Exp Bot                |                    |
| Bose, S                    | 1998          | 250          | 629         | Biochem Biophys Res      | HCAPLUS            |
| Bosse, D                   | 1998          | 21           | 325         | Plant Cell Environ       | HCAPLUS            |
| Boutin, J                  | 1981          | 51           | 353         | Physiol Plant            | HCAPLUS            |
| Bressan, R                 | 1981          | 21           | 23          | Plant Sci Lett           | HCAPLUS            |
| Collet, J                  | 1998          | 273          | 14107       | J Biol Chem              | HCAPLUS            |
| Dellaporta, S              | 1983          | 1            | 19          | Plant Mol Biol Rep       | HCAPLUS            |
| Denecke, J                 | 1990          | 2            | 51          | Plant Cell               | HCAPLUS            |
| Drew, M                    | 1984          | 160          | 500         | Planta                   | HCAPLUS            |
| Duff, S                    | 1994          | 90           | 791         | Physiol Plant            | HCAPLUS            |
| Duff, S                    | 1989          | 90           | 1275        | Plant Physiol            | HCAPLUS            |
| Goldstein, A               | 1988          | 87           | 711         | Plant Physiol            | HCAPLUS            |
| Goldstein, A               | 1988          | 87           | 716         | Plant Physiol            | HCAPLUS            |
| Houston, B                 | 1999          | 1448         | 500         | Biochem Biophys Acta     | HCAPLUS            |
| Hubel, F                   | 1996          | 112          | 1429        | Plant Physiol            |                    |
| Jones, J                   | 1982          | 5            | 1005        | J Plant Physiol          |                    |
| Jungk, A                   | 1993          | 155/1        | 91          | Plant Soil               |                    |
| Lefebvre, D                | 1982          | 54           | 199         | Physiol Plant            | HCAPLUS            |
| Lefebvre, D                | 1990          | 93           | 504         | Physiol Plant            | HCAPLUS            |
| Li, M                      | 1996          | 42           | 753         | Soil Sci Plant Nutr      |                    |
| Liu, C                     | 1996          | 33           | 867         | Plant Mol Biol           |                    |
| Liu, C                     | 1998          | 116          | 91          | Plant Physiol            | HCAPLUS            |
| Muchhal, U                 | 1996          | 93           | 10519       | Proc Natl Acad Sci U     | HCAPLUS            |
| Muchhal, U                 | 1999          | 96           | 5868        | Proc Natl Acad Sci U     | HCAPLUS            |
| Ozawa, K                   | 1995          | 41           | 461         | Soil Sci Plant Nutr      | HCAPLUS            |
| Pan, S                     | 1987          | 14           | 117         | Aust J Plant Physiol     | HCAPLUS            |
| Pawlowski, K               | 1994          |              | 1           | Plant Molecular Biol     |                    |
| Plaxton, W                 | 1999          |              | 349         | Plant Responses to E     | HCAPLUS            |
| Raghothama, K              | 1999          | 50           | 665         | Annu Rev Plant Physi     | HCAPLUS            |
| Raghothama, K              | 2000          | 3            | 182         | Curr Opin Plant Biol     | HCAPLUS            |
| Richardson, A              | 1994          |              | 50          | Soil Biota Managemen     |                    |
| Sambrook, J                | 1989          |              |             | Molecular Cloning: A     |                    |
| Shimogawara, K             | 1995          | 36           | 341         | Plant Cell Physiol       | HCAPLUS            |
| Sigma Diagnostics          | 1985          |              |             | Phosphatase, alkanin     |                    |
| Thaller, M                 | 1998          | 7            | 1651        | Protein Sci              |                    |
| Thompson, J                | 1997          | 24           | 4876        | Nucleic Acids Res        |                    |
| Todano, T                  | 1994          | 9            | 521         | Trans 15th World Con     |                    |
| Trull, M                   | 1998          | 206          | 544         | Planta                   | HCAPLUS            |
| Ueki, K                    | 1971          | 24           | 506         | Physiol Plant            |                    |
| Wasaki, J                  | 1999          | 45           | 439         | Soil Sci Plant Nutr      | HCAPLUS            |

L20 ANSWER 34 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:106057 HCAPLUS

DN 134:188987

TI Human expressed sequence tags and primers for synthesizing full-length cDNAs

IN Ota, Toshio; Isogai, Takao; Nishikawa, Tetsuo; Hayashi, Kohji; Saito, Kaoru; Yamamoto, Junichi; Ishii, Shizuko; Sugiyama, Tomoyasu; Wakamatsu, Ai; Nagai, Keiichi; Otsuki, Tetsuji

PA Helix Research Institute, Japan

SO Eur. Pat. Appl., 2527 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 12

| PATENT NO.      | KIND | DATE     | APPLICATION NO. | DATE         |
|-----------------|------|----------|-----------------|--------------|
| PI EP---1074617 | A2   | 20010207 | 2000EP-0116126  | 20000728 <-- |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

JP2002171977 A2 20020618 2000JP-0196309 20000626 <--  
CA---2380472 AA 20010208 2000CA-2380472 20000728 <--  
EP---1205549 A1 20020515 2000EP-0948282 20000728 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL

JP2002191363 A2 20020709 2000JP-0280990 20000728 <--

PRAI 1999JP-0248036 A 19990729 <--  
1999JP-0300253 A 19990827 <--  
2000JP-0118776 A 20000111 <--  
2000JP-0183767 A 20000502 <--  
2000JP-0241899 A 20000609 <--  
1999US-159590P P 19991018 <--  
2000US-183322P P 20000217 <--  
2000WO-JP05065 W 20000728 <--

AB Primers for synthesizing full-length cDNAs and their use are provided.  
The invention provides 5'-end sequences for 5602 partial cDNA sequences  
(expressed sequence tags, ESTs) and 3'-end sequences for 4970 of these  
clones. Furthermore, primers for synthesizing the full-length cDNA have  
been provided to clarify the function of the protein encoded by the cDNA.  
The full-length cDNA sequences of the present invention containing the  
translation start site provides information useful for analyzing the  
functions of the proteins. Tissue- and cell-specific expression patterns  
are also provided. [This abstract record is one of 6 records for this  
patent necessitated by the large number of index entries required to fully  
index the document and publication system constraints.]

IT 327117-94-2, Protein (human clone PLACE1010310)  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(amino acid sequence; human expressed sequence tags and primers for  
synthesizing full-length cDNAs)

RN 327117-94-2 HCAPLUS

CN Protein (human clone PLACE1010310) (9CI) (CA INDEX NAME)

SEQ 1 MSDSPAGSNP RTPESSGSGS GGGGKRPAVP AAVSLLPAD PLRQANRLPI  
51 RVLKMLSAHT GHLLHPEYLQ PLSSTPVSPI ELDAKKSPLA LLAQTCSQIG  
101 KPDP PPPSSKL NSVAAAANGL GAEKDPGRSA PGAASAAAAL KQLGDS PAED  
151 KSSF KPYSKG SGGGDSRKDS GSSSVSSTSS SSSSPGDKA GFRVPSAACP  
201 PFP PHGAPVS ASSSSSSPGG SRGGSPHSD CKNGGGVGGG ELDKKDQEPK  
251 PSPEPAAVSR GGGGEPGAHG GAESGASGRK SEPPSALVGA GHVAPVSPYK  
301 PGHSVFPLPP SSI GYHGSIV GAYAGYPSQF VPGLDPSKSG LVGGQLSGGL  
351 GLPPGKPPSS SPLTGASPPS FLQGLCRDPY CLGGYHGASH LGGSSCSTCS  
401 AHDPAGPSLK AGGYPLVYPG HPLQPAALSS SAAQAALPGH PLYTYGFMLQ  
451 NEPLPHSCNW VAASGPCDKR FATSEELLSH LRTH TALPGA EKLLAAYPGA  
501 SGLGSAAAAA AAAASCHLHL PPPAAPGSPG SLSLRNPHTL GLSRYHPYK  
551 SHLSTAGGLA VPSLPTAGPY YSPYALYGQR LASASALGYQ

L20 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:824291 HCAPLUS

DN 134:21425

TI Protection of endogenous therapeutic peptides from peptidase activity  
through conjugation to blood components

IN Bridon, Dominique P.; Ezrin, Alan M.; Milner, Peter G.; Holmes, Darren L.;  
Thibaudeau, Karen

PA Conjuchem, Inc., Can.

SO PCT Int. Appl., 733 pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

PATENT NO. KIND DATE APPLICATION NO. DATE

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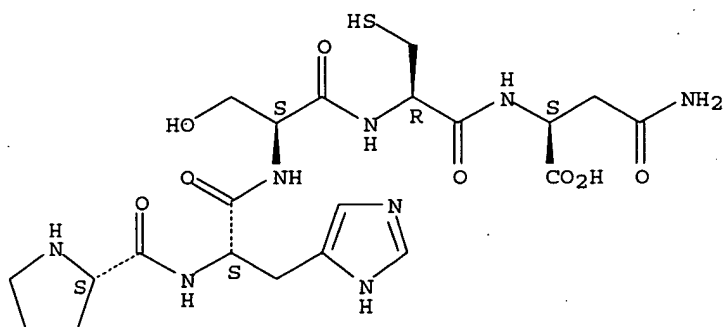
PI WO2000069900 A2 20001123 2000WO-US13576 20000517 <--
WO2000069900 A3 20010215
WO2000069900 C2 20020704
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
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|      | 2003WO-CA01097  | W  | 20030729 |                |              |
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|      | 2003US-0722733  | A1 | 20031125 |                |              |
|      | 2005US-0040810  | A2 | 20050121 |                |              |
|      | 2005US-0170967  | A1 | 20050629 |                |              |
| AB   | A method for protecting a peptide from peptidase activity in vivo, the peptide being composed of between 2 and 50 amino acids and having a C-terminus and an N-terminus and a C-terminus amino acid and an N-terminus amino acid is described. In the first step of the method, the peptide is modified by attaching a reactive group to the C-terminus amino acid, to the N-terminus amino acid, or to an amino acid located between the N-terminus and the C-terminus, such that the modified peptide is capable of forming a covalent bond in vivo with a reactive functionality on a blood component. The solid phase peptide synthesis of a number of derivs. with 3-maleimidopropionic acid (3-MPA) is described. In the next step, a covalent bond is formed between the reactive group and a reactive functionality on a blood component to form a peptide-blood component conjugate, thereby protecting said peptide from peptidase activity. The final step of the method involves the analyzing of the stability of the peptide-blood component conjugate to assess the protection of the peptide from peptidase activity. Thus, the percentage of a K5 kringle peptide (Pro-Arg-Lys-Leu-Tyr-Asp-Lys-NH <sub>2</sub> ) conjugated to human serum albumin via MPA remained relatively constant through a 24-h plasma assay in contrast to unmodified K5 which decreased to 9% of the original amount of K5 in only 4 h in plasma. |    |          |                |              |
| IT   | 252229-85-9   |    |          |                |              |
|      | RL: PRP (Properties)  |    |          |                |              |
|      | (unclaimed sequence; protection of endogenous therapeutic peptides from peptidase activity through conjugation to blood components)   |    |          |                |              |
| RN   | 252229-85-9 HCAPLUS   |    |          |                |              |
| CN   | L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI) (CA INDEX NAME)  |    |          |                |              |

SEQ 1 PHSCN

Absolute stereochemistry.



L20 ANSWER 36 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:660998 HCAPLUS

DN 134:217856

TI The colanic acid gene cluster of *Salmonella enterica* has a complex history

AU Stevenson, G.; Lan, R.; Reeves, P. R.

CS Department of Microbiology (G08), University of Sydney, Sydney, N.S.W., 2006, Australia

SO FEMS Microbiology Letters (2000), 191(1), 11-16

CODEN: FMLED7; ISSN: 0378-1097

PB Elsevier Science B.V.

DT Journal

LA English

AB The colanic acid gene cluster of *Salmonella enterica* LT2 was sequenced and compared with that of *Escherichia coli* K-12. The two clusters are similar with divergence slightly higher than average for genes of the two species. The cluster was divided into four blocks by GC content and seems likely to have transferred from a higher GC content species to the ancestor of *E. coli* and *S. enterica*. All 19 genes of K-12 and 13 genes of LT2 appear to have undergone random genetic drift with amelioration of the GC content. However, in the case of *S. enterica*, we believe that the six genes of the GDP-fucose pathway group were replaced relatively recently by genes closely related to those of the original donor species. Two repetitive elements were observed: a bacterial interspersed mosaic element in the intergenic region between *wzx* and *wcaK* in K-12 only and a RSA (repetitive sequence element) sequence between *wcaJ* and *wzx* in LT2 only.

IT 329379-69-3

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; colanic acid gene cluster of *Salmonella enterica* has a complex history)

RN 329379-69-3 HCAPLUS

CN Dehydratase, guanosine diphosphomannose 4,6- (*Salmonella typhimurium* strain LT2 gene *gmd*) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD  
51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE  
101 YTADV DAMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP  
151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK  
201 ITRAIANIAQ GLESCLYLGN MDSLRDWGHA KDYVRMQWMM LQQEQPEDFV  
251 IATGVQYSVR QFVELAAQQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP  
301 GDVIVAVDPR YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND  
351 LEAAKKHSL L KSHGYEVAIA LES

#### RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
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| Bachellier, S | 1997 | 145 | 551   | Genetics             | HCAPLUS |
| Frick, D      | 1995 | 270 | 24086 | J Biol Chem          | HCAPLUS |
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| Wang, L       | 1998 | 36  | 3182  | J Clin Microbiol     | HCAPLUS |
| Zhang, L      | 1997 | 23  | 63    | Mol Microbiol        | HCAPLUS |

L20 ANSWER 37 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:102218 HCAPLUS

DN 132:245978

TI Anti-invasive, antitumorigenic, and antimetastatic activities of the PHSCN sequence in prostate carcinoma

AU Livant, Donna L.; Brabec, R. Kaye; Pienta, Kenneth J.; Allen, David L.; Kurachi, Kotoku; Markwart, Sonja; Upadhyaya, Ameet

CS Department of Cell and Development Biology, University of Michigan Medical School, Ann Arbor, MI; 48109-0616, USA

SO Cancer Research (2000), 60(2), 309-320

CODEN: CNREA8; ISSN: 0008-5472

PB AACR Subscription Office

DT Journal

LA English

AB Using naturally serum-free SU-ECM basement membranes as invasion substrates showed that plasma fibronectin was necessary to stimulate invasion by DU 145 human and metastatic MATLyLu (MLL) rat prostate carcinoma cells. This activity mapped to the PHSRN sequence, which induced invasion through  $\alpha 5 \beta 1$  integrin. PHSCN, a competitive inhibitor, blocked both PHSRN- and serum-induced invasion. Acetylated, amidated PHSCN (Ac-PHSCN-NH<sub>2</sub>) was 30-fold more potent; however, Ac-HSPNC-NH<sub>2</sub> was inactive. Rats receiving injections s.c. with 100,000 MLL cells were treated systemically by i.v. injection three times weekly with 1 mg of either Ac-PHSCN-NH<sub>2</sub> or Ac-HSPNC-NH<sub>2</sub> beginning 24 h later, three times weekly with 1 mg of Ac-PHSCN-NH<sub>2</sub> beginning only after surgery to remove large (2 cm) MLL tumors, or were left untreated. MLL tumors grew rapidly in Ac-HSPNC-NH<sub>2</sub>-treated and in untreated rats. MLL tumor growth in rats treated with Ac-PHSCN-NH<sub>2</sub> beginning 1 day after MLL cell injection was reduced by 99.9% during the first 16 days of treatment, although subsequent tumor growth occurred. MLL tumor cryosections immunostained with anti-PECAM-1 showed that Ac-PHSCN-NH<sub>2</sub> inhibited neovascularization by 12-fold during this time. Whether initiated after MLL cell injection or only after MLL tumor removal, Ac-PHSCN-NH<sub>2</sub> treatment reduced the nos. of MLL lung colonies and micrometastases by 40- to > 100-fold, whereas Ac-HSPNC-NH<sub>2</sub> was inactive. Thus, Ac-PHSCN-NH<sub>2</sub> may be a potent antitumorigenic and antimetastatic agent for postsurgical use prior to extensive metastasis.

IT 262438-43-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-invasive, antitumorigenic, and antimetastatic activities of the PHSCN sequence in prostate carcinoma)

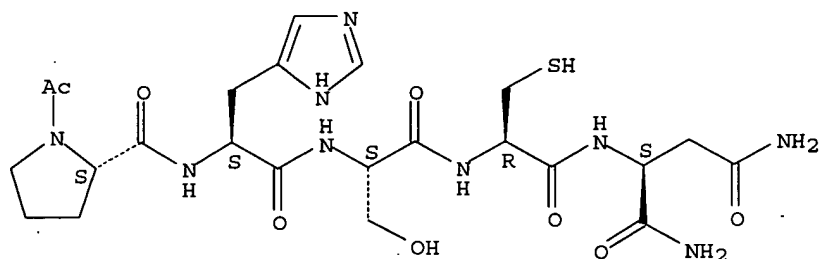
RN 262438-43-7 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)  
(CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
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| Akiyama, S                 | 1985          | 260          | 4492        | J Biol Chem              | HCAPLUS            |
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| Aota, S                    | 1994          | 269          | 24756       | J Biol Chem              | HCAPLUS            |
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| Burnette, W                | 1981          | 112          | 195         | Anal Biochem             | HCAPLUS            |
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| Iwamoto, Y                 | 1987          | 238          | 1132        | Science (Washington      | HCAPLUS            |
| Johansson, S               | 1998          | 77           | 1213        | Br J Cancer              | HCAPLUS            |
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| Litvinovich, S             | 1995          | 248          | 611         | J Mol Biol               | HCAPLUS            |
| Livant, D                  | 1995          | 55           | 5085        | Cancer Res               | HCAPLUS            |
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| Mant, C                    | 1997          | 289          | 426         | Methods Enzymol          | HCAPLUS            |
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| Mould, A                   | 1997          | 272          | 17283       | J Biol Chem              | HCAPLUS            |
| Newman, P                  | 1997          | 100          | S25         | J Clin Invest            |                    |
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| Rossino, P        | 1990 | 189  | 100  | Exp Cell Res         | HCAPLUS |
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L20 ANSWER 38 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:9190 HCAPLUS

DN 132:103595

TI Sequence and analysis of chromosome 4 of the plant *Arabidopsis thaliana*

AU Mayer, K.; Schuller, C.; Wambutt, R.; Murphy, G.; Volckaert, G.; Pohl, T.; Dusterhoft, A.; Stiekema, W.; Entlan, K.-D.; Terryn, N.; Harris, B.; Ansoorge, W.; Brandt, P.; Grivell, L.; Rieger, M.; Weichselgartner, M.; De Simone, V.; Obermaier, B.; Mache, R.; Muller, M.; Kreis, M.; Delseny, M.; Pulgdomenech, P.; Watson, M.; Schmidtheini, T.; Reichert, B.; Portatelle, D.; Perez-Alonso, M.; Boutry, M.; Bancroft, I.; Vos, P.; Hoheisel, J.; Zimmermann, W.; Wedler, H.; Ridley, P.; Langham, S.-A.; McCullagh, B.; Bilham, L.; Robben, J.; Van Der Schueren, J.; Grymonprez, B.; Chuang, Y.-J.; Vandenbussche, F.; Braeken, M.; Weltjens, I.; Voet, M.; Bastiaens, I.; Aert, R.; Defoor, E.; Weitzenegger, T.; Bothe, G.; Ramsperger, U.; Hilbert, H.; Braun, M.; Holzer, E.; Brandt, A.; Peters, S.; Van Staveren, M.; Dirkse, W.; Mooijman, P.; Klein Lankhorst, R.; Rose, M.; Haut, J.; Kotter, P.; Berneiser, S.; Hempel, S.; Feldpausch, M.; Lamberth, S.; Van Den Daele, H.; De Keyser, A.; Buysschaert, C.; Gielén, J.; Villarroel, R.; De Clercq, R.; Van Montagu, M.; Rogers, J.; Cronin, A.; Quail, M.; Bray-Allen, S.; Clark, L.; Doggett, J.; Hall, S.; Kay, M.; Lennard, N.; McLay, K.; Mayes, R.; Pettett, A.; Rajandream, M.-A.; Lyne, M.; Benes, V.; Rechmann, S.; Borkova, D.; Blocker, H.; Scharfe, M.; Grimm, M.; Lohnert, T.-H.; Dose, S.; De Haan, M.; Maarse, A.; Schafer, M.; Muller-Auer, S.; Gabel, C.; Fuchs, M.; Fartmann, B.; Granderath, K.; Dauner, D.; Herzl, A.; Neumann, S.; Argiriou, A.; Vitale, D.; Liguori, R.; Piravandi, E.; Massenot, O.; Quigley, F.; Clabaud, G.; Mundlein, A.; Felber, R.; Schnabl, S.; Hiller, R.; Schmidt, W.; Lecharny, A.; Aubourg, S.; Chefedor, F.; Cooke, R.; Berger, C.; Montfort, M.; Casacuberta, E.; Gibbons, T.; Weber, N.; Vandenbol, M.; Bagues, M.; Terol, J.; Torres, A.; Perez-Perez, A.; Purnelle, B.; Bent, E.; Johnson, S.; Tacon, D.; Jesse, T.; Heijnen, L.; Schwarz, S.; Scholler, P.; Heber, S.; Francis, P.; Bieleke, C.; Frishman, D.; Haase, D.; Lemcke, K.; Mewes, H. W.; Stocker, S.; Zaccaria, P.; Bevan, M.; Wilson, R. K.; De La Bastide, M.; Habermann, K.; Parnell, L.; Dedhia, N.; Gnoj, L.; Schutz, K.; Huang, E.; Spiegel, L.; Sehkun, M.; Murray, J.; Sheet, P.; Cordes, M.; Abu-Threideh, J.; Stoneking, T.; Kalicki, J.; Graves, T.; Harmon, G.; Edwards, J.; Latrelle, P.; Courtney, L.; Cloud, J.; Abbott, A.; Scott, K.; Johnson, D.; Minx, P.; Bentley, D.; Fulton, B.; Miller, N.; Greco, T.; Kemp, K.; Kramer, J.; Fulton, L.; Mardis, E.; Dante, M.; Pepin, K.; Hillier, L.; Nelson, J.; Spieth, J.; Ryan, E.; Andrews, S.; Geisel, C.; Layman, D.; Du, H.; Ali, J.; Berghoff, A.; Jones, K.; Drone, K.; Cotton, N.; Joshi, C.; Antonoiu, B.; Zidanic, M.; Strong, C.; Sun, H.; Lamar, B.; Yordan, C.; Ma, P.; Zhong, J.; Preston, R.; Vil, D.; Shekher, M.; Matero, A.; Shah, R.; Swaby, I'K.; O'Shaughnessy, A.; Rodriguez, M.; Hoffman, J.; Till, S.; Granat, S.; Shohdy, N.; Hasegawa, A.; Hameed, A.; Lodhi, M.; Johnson, A.; Chen, E.; Marra, M.; Martienssen, R.; McCombie, W. R.

CS GSF-Forschungszentrum f. Umwelt u. Gesundheit, Munich Information Center  
for Protein Sequences am Max-Planck-Institut f. Biochemie, D-82152,  
Germany

SO Nature (London) (1999), 402(6763), 769-777  
CODEN: NATUAS; ISSN: 0028-0836

PB Macmillan Magazines

DT Journal

LA English

AB The higher plant *Arabidopsis thaliana* is an important model for  
identifying plant genes and determining their function. To assist biol.  
investigations and to define chromosome structure, a coordinated effort to  
sequence the *Arabidopsis* genome was initiated in late 1996. This report  
describes one of the first milestones of this project, the sequence of  
chromosome 4. Anal. of 17.38 megabases of unique sequence, representing  
about 17% of the genome, reveals 3744 protein coding genes, 81 tRNAs, and  
numerous repeat elements. Heterochromatic regions surrounding the  
putative centromere, which has not yet been completely sequenced, are  
characterized by an increased frequency of a variety of repeats, new  
repeats, reduced recombination, lowered gene d., and lowered gene  
expression. Roughly 60% of the predicted protein-coding genes have been  
functionally characterized on the basis of their homol. to known genes.  
Many genes encode predicted proteins that are homologous to human and  
*Caenorhabditis elegans* proteins.

IT 254859-87-5  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(amino acid sequence; sequence and anal. of chromosome 4 of the plant  
*Arabidopsis thaliana*)

RN 254859-87-5 HCAPLUS

CN Protein (*Arabidopsis thaliana* gene T16L4.40) (9CI) (CA INDEX NAME)

SEQ 1 MAKIVILFDF DRTLIDGSD NWVVTMGLT EIFHQLRFTL PWNRLMDRMM  
51 MELQSQGRSI DDIKSLCKKM PIDSHIEAI KSAKSSGCDL KIVSDANQFF  
101 IEKILEHHDL VDCFSEIYTN PTLDDNGL RILPYHSDAL PPHSCNLCPS  
151 NLCKGLVMDH LRASSSNDQI PRRFIYLGDG GGDFCPTLKL RECDFVMPRT  
201 NYPLWKKISD NPLLIKAEVK EWSSAEQQR ILLQLVSTIT KEEDS

## RETABLE

| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| =====                      | =====         | =====        | =====       | =====                    | =====              |
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| Altschul, S                | 1997          | 25           | 3389        | Nucleic Acids Res        | HCAPLUS            |
| Bent, E                    | 1998          | 13           | 849         | Plant J                  | HCAPLUS            |
| Bevan, M                   | 1998          | 391          | 485         | Nature                   | HCAPLUS            |
| Borodovsky, M              | 1994          | 18           | 259         | Comput Chem              | HCAPLUS            |
| Bowman, S                  | 1999          | 400          | 532         | Nature                   | HCAPLUS            |
| Burge, C                   | 1997          | 268          | 78          | J Mol Biol               | HCAPLUS            |
| Choi, S                    | 1995          | 2            | 17          | Weeds World              | HCAPLUS            |
| Copenhaver, G              | 1996          | 9            | 259         | Plant J                  | HCAPLUS            |
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| Copenhaver, G              | 1998          | 95           | 247         | Proc Natl Acad Sci U     | HCAPLUS            |
| Douglas, S                 | 1998          | 8            | 655         | Curr Opin Genet Dev      | HCAPLUS            |
| Emanuelsson, O             | 1999          | 8            | 978         | Protein Sci              | HCAPLUS            |
| Fichant, G                 | 1991          | 220          | 659         | J Mol Biol               | HCAPLUS            |
| Fransz, P                  | 1998          | 13           | 867         | Plant J                  | HCAPLUS            |
| Gamas, P                   | 1996          | 9            | 233         | Mol Plant Microbe In     | HCAPLUS            |
| Gardner, M                 | 1998          | 282          | 1126        | Science                  | HCAPLUS            |
| Gerstein, M                | 1997          | 274          | 562         | J Mol Biol               | HCAPLUS            |
| Grewal, S                  | 1997          | 146          | 1221        | Genetics                 | HCAPLUS            |
| Hebsgaard, S               | 1996          | 24           | 3439        | Nucleic Acids Res        | HCAPLUS            |
| Henning, K                 | 1999          | 96           | 592         | Proc Natl Acad Sci U     | HCAPLUS            |
| Hubbard, T                 | 1999          | 27           | 254         | Nucleic Acids Res        | HCAPLUS            |

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|-------------------------|------|-----|------|----------------------|---------|
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| Joazeiro, C             | 1999 | 286 | 309  | Science              | HCAPLUS |
| Klein, P                | 1985 | 815 | 468  | Biochim Biophys Acta | HCAPLUS |
| Kotani, H               | 1997 | 4   | 291  | DNA Res              | HCAPLUS |
| Lin, X                  | 1999 | 402 | 761  | Nature               | MEDLINE |
| Lister, C               | 1993 | 4   | 745  | Plant J              | HCAPLUS |
| Lupas, A                | 1991 | 252 | 1162 | Science              | HCAPLUS |
| Marra, M                | 1999 | 22  | 265  | Nature Genet         | HCAPLUS |
| McAinsh, M              | 1998 | 3   | 32   | Trends Plant Sci     |         |
| Meinke, D               | 1998 | 282 | 662  | Science              | HCAPLUS |
| Mewes, H                | 1997 | 387 | 7    | Nature               |         |
| Mewes, H                | 1999 | 27  | 44   | Nucleic Acids Res    | HCAPLUS |
| Mizutani, M             | 1998 | 37  | 39   | Plant Mol Biology    | HCAPLUS |
| Moncrief, N             | 1991 | 30  | 522  | J Mol Evol           |         |
| Mozo, T                 | 1999 | 22  | 271  | Nature Genet         | HCAPLUS |
| Murphy, T               | 1995 | 82  | 599  | Cell                 | HCAPLUS |
| Parniske, M             | 1997 | 9   | 821  | Cell                 |         |
| Pearson, W              | 1988 | 85  | 2444 | Proc Natl Acad Sci   | HCAPLUS |
| Richards, E             | 1988 | 53  | 127  | Cell                 | HCAPLUS |
| Richards, E             | 1998 | 1   | 130  | Curr Opin Plant Biol | MEDLINE |
| Richards, E             | 1991 | 19  | 3351 | Nucleic Acids Res    | HCAPLUS |
| Round, E                | 1997 | 7   | 1045 | Genome Res           | HCAPLUS |
| Schaffer, A             |      |     |      | to be published in B |         |
| The C elegans Sequencin | 1999 | 282 | 2012 | Science              |         |
| Uberbacher, E           | 1991 | 88  | 1261 | Proc Natl Acad Sci   |         |
| Vos, P                  | 1995 | 23  | 4407 | Nucleic Acids Res    | HCAPLUS |
| Wootton, J              | 1993 | 17  | 149  | Comput Chem          | HCAPLUS |
| Xu, X                   | 1995 | 7   | 2151 | Plant Cell           | HCAPLUS |

L20 ANSWER 39 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:794362 HCAPLUS

DN 132:30820

TI Anticancer compounds and methods

IN Livant, Donna L.

PA Regents of the University of Michigan, USA

SO U.S., 53 pp., Cont.-in-part of U. S. 5,840,514.

CODEN: USXXAM

DT Patent

LA English

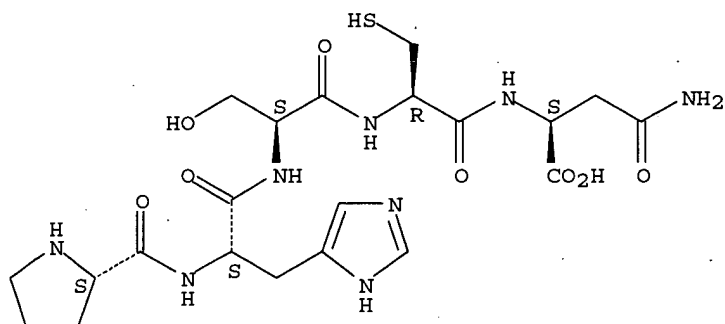
FAN.CNT 4

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |     |
|------|---|------|----------|-----------------|----------|-----|
| PI   | US---6001965  | A    | 19991214 | 1997US-0915189  | 19970820 | <-- |
|      | US---5840514  | A    | 19981124 | 1996US-0754322  | 19961121 | <-- |
|      | CA---2264570  | AA   | 19980528 | 1997CA-2264570  | 19971120 | <-- |
|      | WO---9822617  | A1   | 19980528 | 1997WO-US21674  | 19971120 | <-- |
|      | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW |      |          |                 |          |     |
|      | RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                 |          |     |
|      | EP----928340  | A1   | 19990714 | 1997EP-0949632  | 19971120 | <-- |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO   |      |          |                 |          |     |
|      | US---5989850  | A    | 19991123 | 1998US-0140047  | 19980826 | <-- |
|      | US---6472369  | B1   | 20021029 | 1999US-0373694  | 19990813 | <-- |
|      | AU---765126   | B2   | 20030911 | 2001AU-0051984  | 20010618 | <-- |
|      | US2003083264  | A1   | 20030501 | 2002US-0237850  | 20020909 | <-- |
|      | AU2003268832  | A1   | 20040122 | 2003AU-0268832  | 20031211 | <-- |
| PRAI | 1996US-0754322  | A2   | 19961121 | <--             |          |     |
|      | 1997US-0915189  | A    | 19970820 | <--             |          |     |
|      | 1997WO-US21674  | W    | 19971120 | <--             |          |     |
|      | 1999US-0373694  | A3   | 19990813 | <--             |          |     |

2001AU-0051984 A3 20010618 <--  
 OS MARPAT 132:30820  
 AB The testing of tumor cells, including human tumors capable of metastases, in assays employing fibronectin-depleted substrates is described. Ex vivo induction of cells, including biopsied human cells, is performed with invasion-inducing agents. Addnl., anti-cancer chemotherapeutics are described. Specifically, chemotherapeutic agents which have anti-metastatic and anti-growth properties are described.  
 IT 252229-85-9  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (antitumor peptides and inhibition of metastasis)  
 RN 252229-85-9 HCAPLUS  
 CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI) (CA INDEX NAME)

SEQ 1 PHSCN

Absolute stereochemistry.



| Referenced Author<br>(RAU) | Year<br>(RPY) | VOL<br>(RVL) | PG<br>(RPG) | Referenced Work<br>(RWK) | Referenced<br>File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| -----                      | -----         | -----        | -----       | -----                    | -----              |
| Anon                       | 1995          |              |             | WO---9524471             | HCAPLUS            |
| Anon                       | 1996          |              |             | WO---9612823             | HCAPLUS            |
| Aversa                     | 1996          |              |             | US---5576423             | HCAPLUS            |
| Bischoff                   | 1996          |              |             | US---5539085             | HCAPLUS            |
| Bohn                       | 1984          |              |             | US---4424279             | HCAPLUS            |
| Bresalier                  | 1995          | 55           | 2476        | Cancer Research          | HCAPLUS            |
| Burke                      | 1992          |              |             | US---5169862             | HCAPLUS            |
| Calabresi, P               |               |              | 1209        | Goodman and Gilman T     |                    |
| Doersen                    | 1993          |              |             | US---5264358             |                    |
| Douillard                  | 1981          | II           |             | Compendium of Immuno     |                    |
| Eldred                     | 1994          | 37           | 3882        | J Med Chem               | HCAPLUS            |
| Gaeta                      | 1996          |              |             | US---5559103             | HCAPLUS            |
| Gartner, T                 |               | 260          | 11891       | The Journal of Biolo     | HCAPLUS            |
| Gerlach, J                 | 1986          | 5            | 25          | Cancer Surveys           | MEDLINE            |
| Ginsberg                   | 1996          |              |             | US---5523209             | HCAPLUS            |
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| Goldie, J                  | 1984          | 44           | 3643        | Cancer Research          | HCAPLUS            |
| Hashino                    | 1992          |              |             | US---5136023             | HCAPLUS            |
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| Kitaguchi                  | 1995          |              |             | US---5436221             | HCAPLUS            |
| Kohler, G                  | 1976          | 6            | 511         | European Journal of      | MEDLINE            |
| Kohler, G                  | 1975          | 256          | 495         | Nature                   | MEDLINE            |
| Ku                         | 1995          | 38           | 9           | J Med Chem               | HCAPLUS            |
| Lipman, D                  | 1985          | 227          | 1435        | Science                  | HCAPLUS            |

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| Livant, D    | 1995 | 55 | 5085 | Cancer Research      | HCAPLUS |
| Lobl         | 1993 |    |      | US---5192746         | HCAPLUS |
| Mennen       | 1977 |    |      | US---4018653         | HCAPLUS |
| Nicholson, N | 1995 | 62 | 567  | Thrombosis Research  |         |
| Nomizu, M    | 1993 | 53 | 3459 | Cancer Research      | HCAPLUS |
| Pearson, W   | 1988 | 85 | 2444 | Proc Natl Acad Sci ( | HCAPLUS |
| Reading, C   | 1982 | 53 | 261  | Journal of Immunolog | MEDLINE |
| Saiki, I     | 1989 | 49 | 3815 | Cancer Research      | HCAPLUS |
| Schuurs      | 1977 |    |      | US---4016043         | HCAPLUS |
| Shashoua     | 1991 |    |      | US---5051448         | HCAPLUS |
| Stone, K     | 1978 | 21 | 274  | Int J Cancer         | MEDLINE |
| Wenger, R    |      | 73 | 1498 | Blood                | HCAPLUS |

L20 ANSWER 40 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:386154 HCAPLUS

DN 125:56221

TI Cloned transcription factor regulating MHC expression

IN Ono, Santa Jeremy; Strominger, Jack L.

PA Johns Hopkins University, USA; President and Fellows of Harvard College

SO PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE         |
|------|---|------|----------|-----------------|--------------|
| PI   | WO---9612823  | A1   | 19960502 | 1995WO-US12749  | 19951020 <-- |
|      | W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ |      |          |                 |              |
|      | RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                 |              |
|      | US---5840832  | A    | 19981124 | 1994US-0327832  | 19941021 <-- |
|      | AU---9538593  | A1   | 19960515 | 1995AU-0038593  | 19951020 <-- |
|      | US---5908762  | A    | 19990601 | 1997US-0828584  | 19970331 <-- |
| PRAI | 1994US-0327832  | A    | 19941021 | <--             |              |
|      | 1995WO-US12749  | W    | 19951020 | <--             |              |

AB The present invention relates to NF-X1, a novel DNA binding protein which regulates expression of major histocompatibility complex (MHC) class II mols., and to DNA sequences which encode the protein as well as recombinant expression of the protein. NF-X1 is a newly identified, cysteine-rich polypeptide which interacts sequence-specifically with the conserved X1 box regulatory element found in the proximal promoters of class II MHC genes. A cysteine-rich domain within NF-X1 contains a motif repeated seven times, and this entire region is necessary and sufficient for both sequence specific binding and effector function. The motif is related to but distinct from the previously described metal-binding protein families: LIM domain and RING finger. NFX.1 mRNA is markedly overexpressed late after induction of cells with interferon-gamma, and this overexpression coincides with a reduction in the level of HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA gene in MHC class II pos. cell lines, indicating that the NF-X1 protein is a transcriptional repressor of MHC class II mols. Demonstrated in examples were isolation of cDNA clones encoding NF-X1, primary structure anal. of NF-X1, genomic organization and transcription of NF-X1 gene, NF-X1 encodes a promiscuous X1 box binding protein, delineation of DNA-binding domain of NF-X1, and NF-X1 encodes a repressor of HLA-DRA transcription.

IT 158652-96-1

RL: BSU (Biological study, unclassified); PRP (Properties); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cloning of transcription factor NF-X1 that regulates expression of  
 antigen MHC class II and interleukin 4)

RN 158652-96-1 HCAPLUS  
 CN RNA formation factor NF-X 1 (human clone NFX.1cDNA16 nuclear reduced)  
 (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL  
 51 LFISIVIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNQPW QKLRNEKHII  
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA  
 151 KPKKATQFVY SYGRGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL  
 201 TLQRHPLEKE YWMGMEPDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA  
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDQEKCT  
 301 VRRQDPQVVS PFSRQKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR  
 351 VTAPVWSCQS CYHVFHLNCI KKWARSPASQ ADGQSGWRCP ACQNVSAHVP  
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC  
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH  
 501 GGQCQPCQII LNQVCYCGST SRDVLGCTDV GKSDGFGDFS CLKTCGKDLK  
 551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM  
 601 DPVPSGCKVC GKPLPCGSLD FIHTCEKLCH EGDGCPVSRT SVISCRCSFR  
 651 TKELPCTSLK SEDATFMDK RCNKKRLCGR HKCNEICVD KEHKCPLICG  
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP  
 751 ECTQTCARVH ECDHPVYHSC HSEKCPPCT FLTQKWCWGK HEFRSNIPCH  
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCQPC TTPRADCGHP  
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM  
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSALER KKRLAEAFHI  
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN  
 1001 SKKSHSFPPM NRDRRIIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV  
 1051 CPPTTLTGVL EREMQRPPP PIPHRHQSD KNPSSNLQK ITKEPIIDYF  
 1101 DVQD

L20 ANSWER 41 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:115603 HCAPLUS

DN 122:125105

TI A novel cysteine-rich sequence-specific DNA-binding protein interacts with  
 the conserved X-box motif of the human major histocompatibility complex  
 class II genes via a repeated Cys-His domain and functions as a  
 transcriptional repressor

AU Song, Zhimin; Krishna, Srikant; Thanos, Dimitris; Strominger, Jack L.;  
 Ono, Santa Jeremy

CS Dep. Med., Johns Hopkins Univ. Sch. Med., Baltimore, MD, 21224, USA

SO Journal of Experimental Medicine (1994), 180(5), 1763-74

CODEN: JEMEAV; ISSN: 0022-1007

DT Journal

LA English

AB The class I major histocompatibility complex (MHC) mols. function in the  
 presentation of processed peptides to helper T cells. As most mammalian  
 cells can endocytose and process foreign antigen, the critical determinant of  
 an antigen-presenting cell is its ability to express class II MHC mols.  
 Expression of these mols. is usually restricted to cells of the immune  
 system and dysregulated expression is hypothesized to contribute to the  
 pathogenesis of a severe combined immunodeficiency syndrome and certain  
 autoimmune diseases. Human complementary DNA clones encoding a newly  
 identified, cysteine-rich transcription factor, NF-X1, which binds to the  
 conserved X-box motif of class II MHC genes, were obtained, and the  
 primary amino acid sequence deduced. The major open reading frame encodes  
 a polypeptide of 1,104 amino acids with a sym. organization. A central  
 cysteine-rich portion encodes the DNA-binding domain, and is subdivided  
 into seven repeated motifs. This motif is similar to but distinct from  
 the LIM domain and the RING finger family, and is reminiscent of known  
 metal-binding regions. The unique arrangement of cysteines indicates that  
 the consensus sequence CX3CXLXCGX1-5HXCX3CHXGXC represents a novel

cysteine-rich motif. Two lines of evidence indicate that the polypeptide encodes a potent and biol. relevant repressor of HLA-DRA transcription: (a) overexpression of NF-X1 from a retroviral construct strongly decreases transcription from the HLA-DRA promoter; and (b) the NF-X1 transcript is markedly induced late after induction with interferon  $\gamma$  (IFN- $\gamma$ ), coinciding with postinduction attenuation of HLA-DRA transcription. The NF-X1 protein may therefore play an important role in regulating the duration of an inflammatory response by limiting the period in which class II MHC mols. are induced by IFN- $\gamma$ .

IT 158652-96-1, RNA formation factor NF-X1 (human nuclear factor X1)  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
 (amino acid sequence of; cysteine-rich DNA-binding protein interacts with conserved X-box motif of human major histocompatibility complex class II genes via repeated Cys-His domain and functions as transcriptional repressor)  
 RN 158652-96-1 HCAPLUS  
 CN RNA formation factor NF-X 1 (human clone NFX.1cDNA16 nuclear reduced) (9CI) (CA INDEX NAME)

```

SEQ      1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
      51 LFIIVIIIRQ EGKPKSQOTS FQSSPCNKSP KSHGLQNPWF QKLRNEKHII
     101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
     151 KPKKATQFVY SYGRGPKVKE KLCCEWSNRT TPKPEMLDPK VPNLWGFSTL
     201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
     251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDQEKCT
     301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
     351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
     401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
     451 PCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
     501 GGQCQCQII LNQVCYCGST SRDVLCTDV GKSDGFGDFS CLKTCGKDLK
     551 CGNHTCSQVC HPQPCQCPR LPQLVRCPC GQTPLSQLLE LGSSSRKTCM
     601 DPVPSGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
     651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLICG
     701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
     751 ECTQTCAVH ECDHPVYHSC HSEKCPPCT FLTQKWCWGK HEFRSNIPCH
     801 LVDISGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
     851 CMAPCHTSSP CPVTACKAKV ELQCECGRK EMVICSEASS TYQRIAAISM
     901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALR KKRLAEAFHI
     951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
    1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
    1051 CPPTTLTGVL EREMQRPPP PIPHHRHQS KNPSSNLQK ITKEPIIDYF
    1101 DVQD
  
```

L20 ANSWER 42 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1986:103366 HCAPLUS

DN 104:103366

TI Analysis of cloned cDNA and genomic sequences for phytochrome: complete amino acid sequences for two gene products expressed in etiolated Avena

AU Hershey, Howard P.; Barker, Richard F.; Idler, Kenneth B.; Lissemore, James L.; Quail, Peter H.

CS Dep. Bot., Univ. Wisconsin, Madison, WI, 53706, USA

SO Nucleic Acids Research (1985), 13(23), 8543-59

CODEN: NARHAD; ISSN: 0305-1048

DT Journal

LA English

AB Cloned cDNA and genomic sequences were analyzed to deduce the amino acid sequence of phytochrome of etiolated Avena. Restriction endonuclease site polymorphism between clones indicates that  $\geq 4$  phytochrome genes are expressed in this tissue. Sequence anal. of 2 complete and 1 partial coding region shows .apprx.98% homol. at both the nucleotide and amino

acid levels, with the majority of amino acid changes being conservative. High sequence homol. is also found in the 5'-untranslated region but significant divergence occurs in the 3'-untranslated region. The phytochrome polypeptides are 1128-amino acid residues long corresponding to a mol. mass of 125 kilodaltons. The known protein sequence at the chromophore attachment site occurs only once in the polypeptide, establishing that phytochrome has a single chromophore per monomer covalently linked to Cys-321. Computer analyses of the amino acid sequences have provided predictions regarding a number of structural features of the phytochrome mol.

IT 100469-69-0 100469-70-3

RL: PRP (Properties)  
(amino acid sequence of)

RN 100469-69-0 HCAPLUS

CN Phytochrome (oat clone  $\lambda$ 2.4 subunit protein moiety reduced) (9CI)  
(CA INDEX NAME)

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SEQ      1 MSSSRPASSS SSRNRQSSRA RYLAQTTLDA ELWAEYEESG DSFDYSKLV
      51 AQRDGPVPVQQ GRSEKVIAYL QHIGKGLIG TFFGCNLALD EKSFNVIAFS
     101 ENAPEMLTTV SNAVPSVDDP PRLGIGTNYR SLFSDQFATA LNKALGFADY
     151 SLLNPILVGC KTSKGPFIYAI VHRATGCLVV DFEPYKPTEF PATAAGALQS
     201 YKLAAKAISK IGSLPGGSME VLCMTYYKEV FDLTGYDRVM AYKFMEDDMG
     251 FYFAEITKPG LPYLGLNYP A TDIPGAARFL FRKNKVRMIC DCRARSIKYI
     301 EAEALPFDIS LCGSALRAPH SCNLQYRENA NSIASLYRAY YMEMEEDDE
     351 AESEQPAQQQ QKKKLWELLV CNHESPRYP FPLRYACEFL AQVFAYHYHR
     401 EFELEKGLRE KSILKHQTRL SDMLFREASP LTIYSRAPHI MDEYKCDGAA
     451 LLTGGKYYGT PPPAPTFSQL HDIAFWLSDV NRDSYGLSYD SLHDAGYPGA
     501 SAGDAICGAA YAKINSKII FWFRSNTAAE IRWGGAKHDS SDADDSRRMH
     551 PRISFKAFLF YYKAKSLPVT DYEMDAINSL QLILRGTLND ASKPKREASL
     601 DMQIGDLKLD GLAFLQAYTS EMVRLMFTAT VPILAVDGMG LVMGMMGKAA
     651 ELTGLRVDDA IGRHILTVE ESSYPVQRM LYLALQGKEE KEYRFEYKTH
     701 GPKRDDGPYI LYHACASRD LNDNYVG YCF YAGDATVNKL VADKFTRYEG
     751 DTKAIINPN PLIPPIFGAD FFGNCSEWNA AMTKLTGWNR DEYLDERLLG
     801 EVFDSSNASC PLKNKNAFYS LCYLINSALA GEETEKAPFG FFPSGKTIEC
     851 LLSANRKE NE GGLITGYFCF INYASNELQN ALGYGQASEQ TSLKRLKAFS
     901 YRRHAINNPL ASGNLYSRKA LKNTPLWEEG NKQINYGDNC HNGINKILAD
     951 LDGDSISEKS SCLDLFMAFF VFGDVVVA AV SGYLIICGK GIRISCHLPE
    1001 RFMKQSVYGD GVRLLGGILSD FLFISYKFSP VFFSVEISSK LTKMSIGENL
    1051 NLIDLELRIK NGGLGYPAEL MEGMFEDDMK EGSDEGLGLL VSRKLLRLRN
    1101 GDVRNLREAG VSTFLLTAE L ASAPTAIGQ
  
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RN 100469-70-3 HCAPLUS

CN Phytochrome (oat clone  $\lambda$ 8.2 subunit protein moiety reduced) (9CI)  
(CA INDEX NAME)

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SEQ      1 MSSSRPASSS SSRNRQSSQA RYLAQTTLDA ELWAEYEESG DSFDYSKLYE
      51 AQRDGPVPVQQ GRESEKYIAT LQNIQEGKL IGTFGCCLAL DEKSFNVIAF
     101 SENAPEMLTT V SNAVPSVDD PRLGIGTNYR SLFSDQFATA LNKALGFAD
     151 YSLLNPILYQ CTSKGPFIYAI VHRATGCLVV DFEPYKPTEF PATAAGALGS
     201 TKLAAKAISK LQSLPGGSME EYLCNTYYKE YFDLTGTDRY MAYKFNEDDH
     251 GEYFSEITKP GLEPTLGLMY PATDIPQAR LLGMKNEYRR ICDCRARSIK
     301 YIEAELPFDI SLCGSALRPH SCNLQYMENN HSIASLYRAV VVHEMEEDDE
     351 AESEQPAQQQ KKKKLWGLLY CHHESPRYP FPLRYACEFL AQVFAYHVNR
     401 EFELEKGLRE KNILKMQTAM LSDMLFREAS PLTIVSGTPN IMDEVKCDGA
     451 ALLYGKVMR LRMAPTESQI HDISFWLSDV HRDSTGLSTD SLHDAGYPGA
     501 AALGDMICGM AVAKIMSKDI LFWFRSHTAA EIRWGGAKND PSDMDDSRM
     551 HPRLSFKAF L FVVKMKS LPM SDYEMDAINS LQLILRGTLN DASKPKREAS
     601 LDNGIGDLKL DGLAFLQAVT SEMVRLMETA TVPILAVDGN GLVNGVHOKA
     651 AELTGLRVDD AIGRHILTIV EDSSYPVYQ RLYLALQGKE FDEYRFEVKT
     701 HGPKRDDGPV ILVVNACASR DLNDHVVGVC GVCFVAVDMT VHKLVRDKFT
     751 RVEGDYKAII HMPHPLIPPI FGADEFGMCS EWNAAMTKLT GVMRDFVLDE
     801 ALLGEYGSSM ASCPLKHRDA FVSLCVLIHS ALAGEETEK A PFGFFDRSGK
  
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851 YIECLLSAHR KEMEGGLITG VFCEFINYASN ELGNALQVQQ ASEQTSCLKRL  
 901 KAFSYARHAI HHPLSGRLYS RKALKMTDLN EEQRKQINYG DACMMGINKI  
 951 LADLDGDSIT EKSSCLDLSM AEFLLDGYV AAYSQYLITC QGKGIRISCM  
 1001 LPERFMKQSV YGDGVRLQOI LSFLFISVKF SPYGGSVES SKLTKMSIGE  
 1051 NLNLIDLELR IKHQGLGVPA ELMAQMGEED MKEQSEEGLS LLYSRNLLRL  
 1101 MNGDYRHLRE AGYSTFIITA ELASAPTAMG Q

=> d his

(FILE 'HOME' ENTERED AT 17:25:23 ON 26 APR 2006)

FILE 'HCAPLUS' ENTERED AT 17:25:32 ON 26 APR 2006

L1 3 US2005020810/PN OR (US2003-722843 OR US2002-429174# OR US2003-4  
 E TERNANSKY B/AU  
 L2 59 E5-8  
 E ALLAN A/AU  
 L3 36 E3,E11  
 E ALLAN AMY/AU  
 L4 6 E5  
 E GLADSTONE P/AU  
 L5 28 E3-7  
 E PARRY G/AU  
 L6 181 E3-14  
 E PARRY GRAHAM/AU  
 L7 43 E3-5  
 E DONATE F/AU  
 L8 28 E3-4,E6  
 E MAZAR A/AU  
 L9 79 E3-4,E7-9  
 L10 23 ATTENUON/PA,CS

FILE 'REGISTRY' ENTERED AT 17:28:52 ON 26 APR 2006

FILE 'HCAPLUS' ENTERED AT 17:28:52 ON 26 APR 2006

L11 TRA L1 1- RN : 209 TERMS

FILE 'REGISTRY' ENTERED AT 17:28:52 ON 26 APR 2006

L12 209 SEA L11  
 L13 100 L12 AND SQL/FA AND PROTEIN/FS  
 L14 156 PHSCN/SQSP  
 L15 81 L14 AND L13

FILE 'HCAPLUS' ENTERED AT 17:31:12 ON 26 APR 2006

L16 66 L14  
 L17 3 L16 AND L1-10  
 L18 63 L16 NOT L17  
 L19 QUE PY<=2002 OR PRY<=2002 OR AY<=2002 OR PRD<=20021125 OR AD<=2  
 L20 42 L18 AND L19

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